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# BULLETIN

OF THE

Mississippi

Agricultural and Mechanical College

UNIVERSITY OF MISSISSIPPI

CATALOGUE 1909-1910.

ANNOUNCEMENTS 1910-1911.

AGRICULTURAL COLLEGE, MISSISSIPPI

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Agricultural and Mechanical College

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Announcements 1910-1911.



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\* On leave of absence.

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F. N. CHISOLM, B. Sc., Inspector.  
† G. B. WALKER, B. Sc., Inspector.  
MISS MARY GAY, A. B., Stenographer.

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† Resigned.



## OTHER OFFICERS AND EMPLOYES.

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JAMES EUGENE HASSELLE, Book-keeper.

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JOHN JOSEPH HOOD, Manager of Laundry.

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JOHN C. KEAN, Herdsman, Animal Husbandry Department.

HARRY M. PARKER, B. Sc., Farm Foreman.

PERLEY B. MONOSMITH, Florist.

ALVA EDWIN LINDLEY, A. B., General Secretary of the Y. M. C. A.

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WILLIAM HARRISON ELLARD, Assistant Herdsman, Animal Husbandry Department.

EDWARD A. GROSVENOR, Hospital Nurse.

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SAMUEL PRESTON DENT, B. Sc., Fellow in Agronomy.

D. C. NEAL, B. Sc., Fellow in Bacteriology.

WILSON BRYANT MONTGOMERY, B. Sc., Fellow in Mechanical Engineering.

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\* Resigned.

## STANDING COMMITTEES OF THE FACULTY.

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- On the Library—Professors Walker, Herbert, Barnes, Garner, Harned.
- On the Catalogue—Herbert, Meadows, Bowen, Lewis, Brown, Harned.
- On Examinations—Magruder, Herbert, Barnes, Hull, Logan, Meadows, Clothier.
- On Courses of Instruction—Walker, Hutchinson, Lloyd, Hand, Barnes, Ard, Hull, Moore, Smith, Meadows, McKay, Harned.
- On Classification of Students—Magruder, Walker, Hutchinson, Hull, Meadows.
- On Athletics—Walker, Hull, Meadows.
- On Student Publications—Herbert, Hull, Smith, Meadows, Bowen, Goodale.

## GENERAL STATEMENT.

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### OBJECTS AND HISTORY OF THE COLLEGE.

The college owes its origin to an act of the general government, passed in 1862, to encourage the establishment of industrial colleges in the states to benefit "agriculture and the mechanic arts." This act, among other things, provides for the "endowment, support and maintenance in each state of at least one college, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislatures of the states may respectively prescribe in order to promote the liberal and practical education of the industrial classes."

The status of the agricultural land scrip fund, donated by the United States government, is as follows: The scrip representing 207,920 acres of public land, was sold for about ninety cents per acre, realizing in currency \$188,298. This amount, by judicious management was increased to \$227,150, which is now in the state treasury, represented by thirty-two-year bonds, running from 1896 to 1928, bearing six per cent. interest per annum.

The legislature, by the act of February 28, 1878, divided the sum equally between Alcorn Agricultural and Mechanical College and this college, giving to each \$113,575. A subsequent legislature authorized the sale of \$15,000 worth of bonds to purchase lands; so that the amount now in the state treasury to the credit of this college is \$98,575, yielding an annual income of \$5,914.50.

The legislature of Mississippi, in accepting this endowment—a trust fund from the general government—

prescribed the following in the powers given to the board of trustees:

“The establishment and maintenance of a first-class institution, at which the youth of the state may acquire a common school education and a scientific and practical knowledge of agriculture, horticulture, and the mechanic arts; also, the proper growth and care of stock, without, however, excluding other scientific and classical studies, including military tactics.

“They shall regulate the course of study, rates of tuition, management of experimental farm, manner of performing labor, and the kinds of labor to be performed by students.”

The acts of the general and state governments plainly define the objects of the college. The “leading objects” must be to “benefit agriculture and the mechanic arts.” Should studies be taught other than such as relate to these interests, they are to be considered secondary, and rather as a means by which to comprehend more readily the sciences underlying agriculture and the mechanic arts.

The instruction at the college must be such as to educate and direct the minds and tastes of students to agriculture, horticulture, care and growth of stock, management of farms, manner of performing labor, and to the mechanic arts. The college is not to be in the strictest sense literary, classical or military; but rather, it is to be a college in which the industrial classes shall be given a general education, combined with such scientific and practical knowledge as will make them familiar with the nature of the objects and the forces with which they have to deal.

This necessitates that special stress should be laid on such sciences as underlie agriculture and the mechanic arts, viz.: chemistry, botany, geology, zoology, entomology, physiology, mechanics, mathematics, physics, etc.



To understand these properly, a very liberal culture, especially in English, is requisite. The various conditions contributing to an intelligent understanding of agriculture and the mechanic arts comprehend an education as broad and liberal as that needed in mastering any profession. This education, however, must, of necessity, differ in kind. Students whose education is intended to promote the interests designated in the acts must omit some studies taught in other colleges, looking to a general or special training. This education, too, is to be practical and industrial; students must not only be familiar with farms, machinery for iron and woodwork, and tools, but they must also labor themselves, and in this labor find part of their education, the object of which is to create a taste for agriculture and mechanical pursuits, and to fix and preserve habits of industry.

In conformity with the acts designated, the board of trustees located the Mississippi Agricultural and Mechanical College in Oktibbeha county, one and a half miles from the town of Starkville.

The college is on a permanent basis, the legislature having made ample provision for both agricultural and mechanical instruction, both in theory and practice. There are now provided four courses, agricultural, engineering, textile, and pedagogical, all leading to the degree of Bachelor of Science in the collegiate department. The farm, creamery, stock barns, and sheds, gardens, orchards and shops for instruction in wood and iron and foundry work, are ample for practical training.

The trustees have established a short industrial course, a two year training course, and a collegiate course, which affords the youth of the state ample means of acquiring, in accordance with the law, a thorough elementary education and a scientific and practical knowledge of agriculture and mechanic arts.

The large number of students in attendance each year, shows that the college supplies a long-felt want to the people of the state, by giving a thoroughly practical education to its youth. It is evident that a large class of our people desire the young men of the state to combine manual labor and laboratory work with literary instruction; and this is a correct idea, where boys are to be educated for industrial pursuits. Training of this kind should be in connection with farm and shop, where industrious habits may be preserved or where such habits may be acquired by those not having them already. Study for four years without the habit of manual labor creates a disinclination for such work, and tends to separate brain work and hand work, giving discredit to the latter.

The development of our agricultural and mechanical interests necessitates that theory and practice go together in the education of the farmer and the mechanic. If this is true of the other professions, why not of the farmer? The labor feature corresponds to the technical and expensive instruction that is given at West Point and Annapolis in the numerous drills, encampments, cruises, etc.; to that given in hospitals and dissecting rooms of medical colleges; to that in the moot courts of law schools; and to that in the field work of the engineer.

The instruction in the academic and scientific departments is of the highest importance, and nothing can take precedence over it. The industrial feature comes next, and with it is joined the pecuniary assistance which a student can obtain by his work. It differs from that of the old manual labor school in this: there the important matter was to work enough to pay all expenses, the education being a secondary consideration compared with earning enough money to pay one's way. The boy who labors most of his time is physically too tired to accomplish much in his studies, whereas, moderate labor facil-

itates study. It is desirable that this feature should be understood in connection with the college. It must not be thought that a boy can work his way through by his labor, and also get a first-class education. It is impossible to do both. He could not accomplish both if he had a school at his very door. A student here has many advantages; he not only gets his tuition free, but has an opportunity to work and pay for part of his board by his own labor. At home he would have to incur the expense of board and clothing—an expense unavoidable in attending school under any conditions.

## EXTRACTS FROM THE LAW IN THE CODE.

**Tuition Free and Not Free.**—"Tuition shall be free in all branches to students of this state for five years."

**Dormitory Privileges.**—"The privilege of rooming in the dormitory belongs to the free students, and the due quota of boys from each county in preference to all others."

**Apportionment of Students.**—"The right belongs to each county to have a number of students admitted proportionate to its number of white educable males compared with the whole number in the state."

**The Same, How Made.**—"The apportionment shall be made and announced by the president of the college annually, and communicated to the superintendents of education of the counties."

**The Same, Duty of Superintendent.**—"The superintendent of each county after due notice published, with the consent of the board of supervisors shall give certificates of selection to the number of students to which the county is entitled, and this, in addition to those already in the college, if any. And this selection of new students shall be made by drawing."

**The Same, How Certificates Attested, etc.**—"The certificate of selection shall be attested by the clerk of the board of supervisors under its seal, and shall entitle the holder to admission into the college, with all its privileges, to pursue all its industrial branches selected, and to enter the sub-class or class for which he is fitted."

In 1882 the board of trustees passed resolutions for the admission of girls as students at the college. But the



college is not equipped for supplying board and lodging for women, hence the attendance of young ladies is not solicited. If, however, young ladies desire to enter the college, and can secure board either in town or on the campus in private families, they will be admitted as regular students. This information is furnished for the benefit of any young ladies who may desire to enter, knowing that it is impossible for them to receive that vigilant attention here which they would receive at an institution specially fitted for the education of women.

A limited number of students from other states will be received into the college next year should they apply. Students from other states will be on the same footing as students from Mississippi, except that they will not be allowed to live in the dormitory, unless there are rooms not required for Mississippi students. All such students entering below the sophomore class will be charged a tuition fee of thirty (\$30.00) dollars. Those entering the sophomore or junior class will be charged a tuition fee of forty (\$40.00) dollars, and those entering the senior class a fee of fifty (\$50.00) dollars.

No part of this fee will be refunded because of a student's remaining less than a session.

## APPORTIONMENT OF STUDENTS.

The following apportionment of students to the different counties is announced for the session 1910 and 1911:

County.	No. Entitled.	County.	No. Entitled.
Adams .....	7	Lauderdale .....	30
Alcorn .....	15	Lawrence .....	13
Amite .....	15	Leake .....	17
Attala .....	22	Lee .....	20
Benton .....	9	Leflore .....	4
Bolivar .....	5	Lincoln .....	18
Calhoun .....	19	Lowndes .....	11
Carroll .....	17	Madison .....	11
Chickasaw .....	14	Marion .....	13
Choctaw .....	14	Marshall .....	16
Claiborne .....	7	Monroe .....	19
Clarke .....	16	Montgomery .....	13
Clay .....	11	Neshoba .....	16
Coahoma .....	7	Newton .....	19
Copiah .....	25	Noxubee .....	16
Covington .....	12	Oktibbeha .....	11
DeSoto .....	9	Panola .....	13
Forrest .....	7	Perry .....	11
Franklin .....	9	Pearl River .....	9
Greene .....	7	Pike .....	20
Grenada .....	6	Pontotoc .....	18
Hancock .....	9	Prentiss .....	16
Harrison .....	15	Quitman .....	4
Hinds .....	16	Rankin .....	15
Holmes .....	12	Scott .....	13
Issaquena .....	4	Sharkey .....	4
Ittawamba .....	20	Simpson .....	11
Jackson .....	14	Smith .....	15
Jasper .....	14	Sunflower .....	6
Jefferson .....	7	Tallahatchie .....	9
Jefferson Davis.....	4	Tate .....	13
Jones .....	20	Tippah .....	13
Kemper .....	15	Tishomingo .....	13
Lamar .....	9	Tunica .....	4
Lafayette .....	22	Union .....	15

County.	No. Entitled.	County.	No. Entitled.
Washington .....	8	Warren .....	13
Wayne .....	8	Winston .....	16
Webster .....	13	Yalobusha .....	13
Wilkinson .....	8	Yazoo .....	13

Should more than the number apportioned to a county desire to attend the college, they will send in their applications, through their county superintendents, to the president of the college. As all counties do not send their full quota, there is always room for some students who make applications in the manner above described. The Code of 1906, extracts from which have been given, virtually devolves upon the county superintendents the responsibility of having their counties represented at the college. The president and the secretary of the college will, at all times, cheerfully co-operate with them in securing the quota of students from their counties, and to this end will supply all necessary catalogues and circulars, and will, by correspondence, give full information desired.

## CONDITIONS OF ADMISSION.

Applicants must be in good health and not less than sixteen (16) years of age. Should, however, two brothers, one above, and the other a little under, the specified age, apply, exception will be made in the case of the latter, if he is well qualified in other respects. Those who have been students at other colleges must bring with them testimonials of honorable discharge.

All students on entering college, are required to sign the following pledge:

"I ..... do by this instrument of writing acknowledge my obligation, while I am a student of the MISSISSIPPI AGRICULTURAL AND MECHANICAL COLLEGE to obey its regulations.

"I especially pledge my honor that I will not have in my possession, during term time, or while I remain at the college during vacation, without the written consent of the president, any deadly weapon, except such arms as are furnished by the military department.

"I do further pledge myself, on honor, not to become, while I am a student here, a member of any secret club, society, or fraternity whatever, nor to wear the badge of any such secret order; not to affiliate with any secret college organization; not to encourage the inauguration or maintenance among the students of this college of such societies, clubs, or fraternities, by whatever name they may be designated; but I pledge myself to actively discourage the same, and to bring to the attention of the president or of the faculty, every violation, or proposed violation, of the college regulations against secret societies; provided, however, that this pledge is not to prevent my becoming a member of any of the well-known charitable and benevolent orders to which all good citizens, without distinction of class or occupation, are admitted; nor is it to prevent my affiliating with the same under such restrictions as the president and faculty may impose.

"I do further especially pledge myself, on honor, that I will not treat with disrespect, by shouting, or otherwise, any officer or student of the college, any visitor upon the grounds, or any applicant for admission to the college, and that I will not engage in 'hazing,' or in any other maltreatment of a fellow student, or of any other person on the college grounds, whether a resident, or a visitor.

"Acknowledging by my signature that I fully understand the nature of this instrument of writing, I again pledge my honor that I will carry out in good faith the spirit and letter of this agreement by which I become entitled to the benefits of membership in the corps of students in the Mississippi Agricultural and Mechanical College."

Every student in taking the above pledge, obligates himself to abstain from cigarette smoking, from gambling of every description, and from the use of all intoxicating drinks. The state is not willing to waste money in trying to educate any of these classes of young men, for it cannot be done.



Unless a young man is willing to take the above pledge in good faith, he is advised to remain away; for no such young man will be tolerated in the college.

Applicants for admission into the industrial short course must be able to read ordinary prose readily and intelligently, spell words of common use, and explain the construction of simple English sentences. They must also be acquainted with the more elementary principles and operations of arithmetic.

Applicants for admission into the two years training course for teachers should possess qualifications equivalent to those required for passing successfully the examination for second grade teachers' license in Mississippi. In case the applicant gives satisfactory evidence of earnestness of purpose and good natural ability, the above requirement will not be rigidly enforced.

Applicants for the freshman class will be required to pass a good examination on English grammar, arithmetic, geography, elementary algebra, elementary rhetoric, and history of the United States.

Applicants will be admitted into any class in the college at any time, if they can pass a satisfactory examination on all of the preceding studies of the course.

Those who desire to devote their attention to the study of special subjects bearing on agriculture or the mechanic arts, may take a select course, provided they pass an examination which would admit them into the freshman class, and, in addition, such examination as the professor in charge of the department selected shall prescribe.

Should students desire to take a select course on account of failure in any entrance examination in the regular course, they will be permitted to do so.

## EXPENSES.

All students are charged a matriculation fee of five dollars. After five years, a tuition fee of \$30.00 is charged each session, all of which must be paid whether a student remains at the college an entire session or not. A tuition fee is charged annually for students from other states.

The hospital and gymnasium fee, which includes attention and medicine, and training in gymnastics, is \$7.00 for each student, and must be paid at the beginning of each session, or when he enters.

The college furnishes a room in the dormitory free of rent, also the use of a limited number of single iron bedsteads for seventy-five cents each per session; but students must supply themselves with all necessary furniture, such as reading-tables, wash-stands, chairs, etc., which, when two boys are together, cost about \$6.00 each. These things can usually be purchased here to good advantage; but such articles as blankets, sheets, and towels should be brought from home.

Students of the junior and senior classes pay for the apparatus they break. Text-books and drawing material will probably cost, on an average, not exceeding \$7.00 per term for students in the freshman class, and \$4.00 per term for those in the preparatory department.

The dormitory is heated with steam from a central power plant. Fuel will be charged at actual cost, which for one session, will probably not exceed \$9.00 for each student living in the dormitory. In order to make this expense as little burden as possible, a charge of from \$1.00 to \$1.50 per month is made against the account of each dormitory student until the coal bought for the season has been paid for. Day students will be charged each session in advance, a fuel fee of \$3.00.

The buildings are well supplied with electric lights, and with water from a well about one thousand feet deep.

Students pay for light and water, including bath-house supplies, at a cost of fifty cents per month for each student.

The college owns and operates a steam laundry where all the regular work of the students is done at a cost of \$1.25 per month for each.

Board is furnished at actual cost, the necessary groceries and supplies being bought at wholesale wherever they can be bought to the best advantage. The expenses at the end of each month are made up and divided among the students in the dormitory. They include the cost of keeping up the dining-hall, sweeping the halls of the dormitory, replacing broken crockery, etc., necessary to keep the boarding department in efficient working order. The average expense per month this session has been \$7.36.

All students are required, by a resolution of the board of trustees, to wear the prescribed uniform within five miles of the college buildings. The uniform, consisting of coat, trousers, and cap, may cost next year about \$14.50; but the cost varies from year to year, owing to the fact that the uniform is made by contract, let to the best bidder. The material is cadet gray No. 817, manufactured by the Charlottesville Woolen Mills, Charlottesville, Va. In addition to the regular uniform a flannel shirt has been adopted for fall and spring wear. This not only saves the more expensive uniform, but is much more comfortable. Two flannel shirts and a uniform tie to be worn with the shirts cost about \$4.00.

It will be observed that students are permitted to select either the agricultural course, the engineering course, the pedagogical course, or the textile course, at the beginning of the second term of the freshman year. Those who take the agricultural course will be required to work in the farm, the garden, the experiment station, or on the campus, and are paid eight cents per hour for such labor

faithfully performed. Those who take the engineering course or the textile course will be required to work in the shops, and since this is purely educational, and not a source of any revenue, no pay is allowed them for such work. Students in the freshman and preparatory years work on the farm, in the garden, and in the shops. They are paid eight cents per hour for faithful labor on the farm and in the garden, but are not paid for work in the shops.

To assist in meeting expenses, students taking the agricultural course can labor from two to three hours each day, three to five days in the week, limited by money appropriated for this purpose. This is compulsory to the extent that each student must perform a prescribed minimum amount of labor. With ordinary weather the student may be able to earn an average of about \$25.00 a year. Some have earned as much as \$60.00. They can also labor on Saturday, and very frequently work longer than three hours daily during the week. Those who do this earn much more and it goes far toward meeting their expenses. Money so earned is credited for board, and it is not to be drawn even when the deposit is more than eleven dollars, except in final settlement. Quite a number of students have by their labor brought their total expenses down to an average of \$100.00 for the session. This includes board, fuel, washing, clothing, and average traveling expenses.

Each student must have at least \$11.00 at the opening of the session to apply on his first month's board, and \$11.00 at the beginning of each board month thereafter to pay his board for the ensuing scholastic month. Those who fail to do this will be charged at the day rate of 40 cents instead of the month rate until deposits are made, the difference in the rate being from six to ten cents per day, depending upon the actual cost of board, fuel, lights, and

water. Students must see for themselves that this deposit is made, and not depend upon their parents' being notified by the college authorities. All money deposited is allowed in settlement of accounts at the end of the session, or upon withdrawal except money deposited for fees and rent of bedsteads, which is not refunded. There must be a settlement at the end of each scholastic month; students who cannot pay must leave the college. No honorable discharge will be given any student until he pays all dues.

Students absent from the college on permit for six days or more may receive credit on their board for such absence by complying with the regulations governing leaves of absence.

Board will be due for session 1910-1911 on the following dates:

October 20th.  
November 17th.  
December 15th.  
January 19th.  
February 16th.  
March 16th.  
April 13th.  
May 11th.

Parents and students should be prompt in seeing that the necessary deposits are made on the above dates.

Owing to the holidays during Christmas, the month from December 15th to January 19th will be five weeks long.

Duties will be suspended for the Christmas holidays, and a credit will be given on board to all students who are away during the entire period of the Christmas holidays, who, on their return, comply with regulations governing leave of absence, but no additional credit will be given to those who leave before duties are



suspended, or to those who may be late in returning, as there can be practically no reduction of expenses in running the mess hall except during the authorized holiday period.

All students are required to pay to the secretary at the beginning of the first term, or when they enter—

Matriculation, library and lyceum fee.....	\$ 5.00
Hospital and gymnasium fee.....	7.00
For uniforms.....	18.25
Rent on iron bedsteads.....	.75
Advance on board.....	11.00
	<hr/>
	\$42.00

In addition to the above, they must have from \$15.00 to \$20.00 to furnish their rooms and purchase books, making about \$60.00 necessary for a new student. Only \$42.00 should be deposited with the secretary.

Students are requested to bring postoffice money order, express money order, or bankers' exchange, if they can do so, as occasionally some inconvenience to them, and to the secretary also, is necessarily caused by delay in handling personal checks on local banks, which we must place with our bank subject to credit when collected. However, this can be avoided if you will only get the cashier of your home bank to certify to the value of your check before sending it to us. Though personal checks that are not certified are unsatisfactory, they will not be refused.

By order of the board of trustees, students are not permitted to draw money deposited with the secretary except in final settlement. Charges against such deposits will be made for fees, uniform, board, fuel, lights, water, laundry, which, after a student enters, cover all regular necessary expenses except stationery and a few small items of that kind. By noting this fact, parents can reg-

ulate expenses by supplying spending money direct better than they can by placing funds with the secreatry to be drawn by their sons as occasion may arise for the use of the money. It is very gratifying for us to state that a large number of our best young men spend very little each month outside of the cost of board, fuel, lights, water, laundry, and parents need not fear that their boys will be embarrassed by reducing expenses to a minimum.

It is the desire of the board of trustees that parents and guardians co-operate with the college authorities in encouraging the practice of economy by students, and to this end it is suggested that students should not be supplied with much pocket money in excess of what is required for necessary expenses.

An itemized statement of the account of any student will be sent to his parent or guardian, provided the secretary is requested by the parent or guardian to do so; otherwise statements will not be sent, owing to the great amount of work involved in making them.

AGRICULTURAL COLLEGE (not Starkville) is our postoffice and our express office. Both postoffice and express money orders can be bought or collected at "Agricultural College," without the necessity of going to Starkville—over a mile away. Much delay is often caused by letters being addressed to "Starkville" instead of "Agricultural College."

Students who travel on the Mobile & Ohio, or the Southern railroad in Mississippi (line from Columbus to Greenville) can get an order enabling them to secure a ticket at two cents a mile, provided they make application to the secretary of the college in time, and furnish in each case the following information: (1) Name of applicant; (2) Point at which train will be taken on either of the above roads; (3) Name of railroad. No other road in the state grants reduced rates.

## DISCIPLINE.

The president, by college regulations, is responsible for the government and management of the college and supervises and controls all the departments, collegiate and otherwise.

The commandant has immediate command of the corps of cadets and is responsible for the military organization. On his recommendations the president appoints the officers and non-commissioned officers of the regiment. All permits for privileges and all excuses and explanations for delinquencies must be submitted through him. It is his duty to report to the president, for his action, all violation of college regulations. He assists the president and faculty in their efforts to enforce discipline, and sees that the punishments given by them are served.

To enforce discipline and preserve orderly conduct, reports are made by the cadet officers and non-commissioned officers, and demerits and punishments are given by the president for those reports which are not removed on explanation submitted to the commandant. Students have the right of appeal in writing, through the commandant, to the president, when they think injustice has been done them.

The scale of demerits is from 1 to 10, according to the degree of the offense.

The grades of punishment are:

I. Reprimand, demerits, privation of privileges, walking extras, and performing extra drill.

II. Arrest, confinement to room or college limits, and reduction to ranks, of cadet officers and cadet non-commissioned officers.

III. Suspension, dismissal with privilege of resigning, and public dismissal.

IV. Expulsion.

Only the president and faculty and the commandant acting under the direction of the president can award punishment. Those of the first and second grades are given by the president, and those of the third and fourth grades by the faculty.

The discipline has for its chief aim and object to secure with as little severity as possible, prompt and cheerful obedience to, and respectful, quiet demeanor towards the college authorities, orderly conduct in the section rooms, dormitory, mess-hall, chapel, and in the fields and shops.

The military feature is a most effective means of enforcing and securing discipline. The company, battalion and regimental organization gives to the cadet officers and cadet non-commissioned officers acquaintance with the proper exercise of authority, and cadets acquire habits of obedience.

This feature is made to conduce to the furtherance of the principal aim and object of the college—its industrial feature.

In order to maintain discipline, do justice to all, clearly discriminate between the faithful and the unfaithful, and render a correct report of conduct, class-standing, etc., at the end of each term, the attention of the patrons of the college is respectfully directed to the following regulations governing absence, and their co-operation is earnestly requested:

I. After regularly matriculating, no student, except on recommendation of the surgeon, will be permitted to go home or elsewhere, except at such time as the faculty may designate, unless the parent or guardian explicitly directs the president to grant the privilege.

II. All applications for leave to go home or elsewhere must be for a specified time.

III. Any student who is on leave of absence and cannot return at the expiration of the time granted, must notify the president, give reasons therefor, and ask for extension of leave, designating the date on which he hopes to be able to return.

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## GRADING AND EXAMINATIONS.

The following regulations are taken from the regulations of the faculty (revised edition, May 21, 1906). They were adopted originally and put in force during the session of 1904-1905:

1. All legislation on the subject of grading is hereby repealed.

2. Grades from A to F, omitting E, are given for daily recitations and for examinations. and A shall indicate excellent work, or, approximately, grades from 90 to 100; and B, good work, or, approximately, grades from 80 to 90; C, fair work, or, approximately, grades from 70 to 80; D, poor work, or, approximately, grades from 60 to 70; and F, failure, or grades below 60.

3. The grade for entrance into the freshman class shall not be less than D.

4. Any student making one or more half-term grades of F in a subject, shall be debarred from the final examination on that subject, unless the instructor, with the approval of the head of the department, shall see fit to waive this requirement.

5. A student who has qualified for examination in a subject, and has made an examination grade of F in it, shall be entitled to a second examination, to be given not later than the end of the first term immediately following the term in which the student failed; or, in case the student does not re-enter college at the beginning of the next term, he shall be required to take this second examination not later than the end of the first half term after he does re-enter college. In case the student fails on this second examination, or neglects to take it during the time indicated, he shall be required to take the subject over in class or under an instructor approved by the president of the college, and the head of the department in which the subject



lies. This special examination may be taken on any Saturday afternoon by agreement of professor and student.

6. A student who has qualified for an examination and for reason satisfactory to the instructor and the head of the department has failed to take it, shall be entitled to an examination to be taken under time conditions provided for in section 5, and such students shall be entitled to a second examination.

7. Any student who has not taken the final examination in a subject because of the provisions of Section 4, may, at the discretion of the instructor, with the consent of the head of the department, take this examination at the time and under the conditions provided for in section 5.

8. In all examinations for advanced standing in a subject, or for passing off of a subject in which he has no half-term grades, the student shall be required to make a grade of D; and at the discretion of the instructor, with the consent of the head of the department, students taking examinations under the conditions outlined in this section and in sections 4, 5, and 6, may be required to make a grade of C.

9. All special final examinations shall be held at such times as are designated by the committee on examinations.

10. In case a student be absent from one or more recitations, he may, if the instructor see fit, be required to make up the work he missed.

11. In case a student be absent one-fourth or more of the time, he may be required to stand a special examination for a grade. This examination may be, at the discretion of the instructor, combined with his average daily grade for that half-term, and this average or the special examination, when the instructor sees fit to disregard the daily grades, shall constitute the grade for the half-term.

12. In subjects requiring practical work, for which an examination would not be an adequate test and in which the making up of work would be impracticable, the passing or the not passing of a student shall be left to the discretion of the instructor and the head of the department.

13. Partial examinations may be held on a subject, when, in the judgment of the instructor, it is advantageous to do so, and the average of these partial examinations shall constitute the final examinations on that subject.

14. On all reports for a student's final standing the word "Passed," together with the letter A, B, C, or D, indicating the

class of work done; or the word, "Failed," where he has failed shall be reported. No final examination grades shall be turned into the office, but merely the final standing.

15. Under the head of "Remarks" on each report where a student has failed to receive a grade, the instructor shall indicate the reason why no grade has been given.

16. This system of grading shall go into effect at the beginning of the second term of the session 1904-1905.

17. It shall be the duty of each professor to make written report to the president at the end of each half term of students not doing satisfactory work in subjects taught in his department.

18. Each student taking a written lesson or standing an examination, in any department of the college, shall be required to furnish a blank book, known as a "quiz book," for such written lesson or examination.

19. The question of the form and manufacture of this "quiz book," shall be taken up and investigated by a committee of three from the faculty, to be appointed by the president, and the books shall be put on sale at the student book store and shall not cost more than three and one-third cents each.

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## CAMPUS AND BUILDINGS.

ROBERT C. BRIDGES, Protector of Buildings and Grounds.

**Campus.**—The college campus extends over about fifty acres of land; it is situated on a series of gently sloping hills, and is shaded by native trees. The greater portion of this area is a lawn of Bermuda sod. The location and surroundings of the institution are conducive to health. The college buildings which are used for instruction are arranged according to predetermined plans about an administration building which is now being completed. The plan provides an arrangement by which buildings for allied purposes are grouped together for convenience and facility and it also makes provision for the future growth of the institution by which these allied features may be expanded to accommodate future growth.

There are now more than sixty separate buildings on the campus; thirty-four of this number being residences for professors and instructors, each having the adjacent buildings necessary about a country home. The remainder of the buildings, not especially mentioned, are used for barn and other general purposes.

**Water Works and Sewerage System.**—The college water supply is obtained from artesian wells and the water works system is complete, and protected for the health of the college community. A steel tank with a capacity of fifty thousand gallons is erected on a high central point and this with the necessary fire pumps and general water works system, provides a satisfactory fire protection. All buildings and purposes of the institution are supplied with water from the wells.

The sewerage system operates successfully, and every effort is made to make it accomplish its best purposes toward the general health of the residents of the college community.

**Electric Lights.**—All buildings of the institution, with the exception of a few of the college barns, are supplied with electric lights, and power, when power is required. The electric light system is supplied from low voltage direct current generators and the generating units are so selected and arranged that economy of operation may result. The work incident to the distribution and maintenance of the distributing system, as well as the general maintenance of the system, is performed by students.

**Steam Heating Plant.**—The college buildings are heated with steam and by this means are made comfortable at a minimum cost. Perhaps no other system could so well accomplish the purposes required.

**Central Power House.**—The central power house is located, as its name would imply, near the center of the

system which it must supply. In it is located machinery and apparatus for supplying or controlling the water works, electric lights and power and steam heat to the general system.

**Stephen D. Lee Administration Building.**—This building is named to commemorate the first president of the college. As its name implies, it is the administrative center of the institution and about it are grouped the other college features. The building occupies a commanding position with regard to other buildings, and will be completed during the summer of 1910. The offices of the president, the secretary, and the commandant of cadets, are located in this building, and in it are student society halls, an armory, the college chapel, and a complement of well equipped rooms and offices for all non-technical departments of the college.

**Dormitory.**—The largest buildings on the campus are student dormitories. These are equipped in such a manner as to afford maximum convenience, with toilet and baths; shower baths are provided in the basements.

The general plan of the campus provides a location for dormitory extensions which will allow room for expected growth. There is a large building unfinished, which will be brought into service for dormitory purposes as soon as funds become available for this purpose.

**The Mess Hall.**—This important feature of the college has provision for seating comfortably about fifteen hundred people. The cooking and serving equipment is entirely modern and accomplishes its purpose in a successful manner. The steward's department is supplied with necessary cold storage and general supply storage in order to allow purchases in economical quantity.

**W. B. Montgomery Agricultural Hall.**—This building, named to commemorate Col. W. B. Montgomery, local

trustee of the college for twenty-five years, is devoted to agricultural purposes, with the exception of a rear wing, which is occupied by the general library. The facilities of this building are as complete as we can supply.

**Engineering Building.**—This building contains the apartments of all engineering features of this institution, except the textile department. A great amount of floor space is covered by the building and its wings; it is necessary to provide much ground-floor space in order to accomplish the purposes of those branches of engineering which utilize heavy machinery. Adjacent to this building and under direction of one of its departments is located the ice plant.

**The Chemical Buildings.**—These buildings are occupied exclusively by the department of chemistry and the offices and laboratories of the State chemist. A new chemical laboratory is under construction; when this new building is complete the facilities of the department will be greatly increased.

**The Textile Building.**—This building is occupied exclusively by the textile department, and its facilities are not surpassed for the purposes of textile instruction. Its equipment is complete and the best talent of the country aided in the design and apportionment of this building and in the selection of its equipment.

**The J. Z. George Infirmary.**—This building is conveniently located for its purpose. It is at a proper distance from other college buildings and located for perfect drainage and hygienic conditions.

The building is named in commemoration of Senator George, to whom the institution is much indebted.

**The Dairy Building.**—A building especially devoted to dairy purposes and equipped with ample facility for



instruction in dairying, and also with facilities for supplying milk and butter for student consumption, is located conveniently for its purposes.

**The Laundry.**—This building is owned and operated for the exclusive benefit of the student body, and is well equipped.

**Barns.**—Separate and sufficient barns are provided for properly housing the large amount of stock owned by the departments of the institution. The largest barns are under the control of the departments of dairy husbandry, animal husbandry, and the farm department.

The horticultural department also has ample barn facility.

**Horticultural Green-Houses.**—A group of suitable buildings is occupied by the department of horticulture. Included in this group are tool rooms, packing sheds, cold and hot frames, hot houses, and other necessary buildings.

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## HEALTH.

The college buildings are on a series of variously shaped hills, 422.4 feet above the sea level, gently sloping and drained in every direction, remote from marshes, and having the requisites for promoting vigorous health. In addition there is a complete system of sewerage and a magnificent water supply furnished by two artesian wells of over a thousand feet in depth.

In addition to these advantages in situation, the facilities for caring for the sick are of such superior nature that the majority of those who visit sick students readily admit that, a mother's or a sister's presence excepted, they are better provided for than they would be at home; for here there is a well equipped hospital, and a skilled physi-

cian and trained nurse are in attendance upon sick students day and night, if necessary.

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## **RELIGIOUS EXERCISES.**

The daily duties are opened with a prayer and song service in the chapel—faculty and students being required to be present. On Sunday morning students may attend any church in the town of Starkville.

Every Sunday morning religious services are held in the chapel, at which all students must be present. These services are conducted, in turn, by the pastors of the different churches in the town of Starkville and vicinity.

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## **YOUNG MEN'S CHRISTIAN ASSOCIATION.**

Apart from the general religious exercises, including the morning chapel service and the Sunday morning sermon, the Young Men's Christian Association conducts regular meetings. The purpose of the association is to promote a healthful growth of moral and social life in the college, to develop Christian students through active work, and to lead other students to know and to love Jesus Christ. The public devotional exercises of the association include a short prayer service on Tuesday and Thursday evenings. On Sunday evening the Y. M. C. A. holds its regular meeting, at which special themes related to the devotional and moral life of the students are presented. Also a series of life work addresses are given before the student body. Speakers outside of the student body usually present these topics.

The Young Men's Christian Association makes a special effort to provide for all the students who care to do the work, a practical and devotional study of the Bible.

During the session of 1909-1910 this course of study has been directed by student leaders, trained in normal groups led by Dr. Logan and Prof. Hull. A recent summary based on actual class attendance rather than on enrollment, shows an average weekly attendance of 320 men enrolled in thirty classes. In addition to the course of Bible study, the association is making special plans to present a study of world problems, including special attention to the modern foreign missionary enterprise. For the coming year the management of this department, which has been somewhat deficient, is entrusted to a committee of personally interested workers.

The importance of the association in college life has grown to the point, that there has been employed for the past three years a general secretary. Mr. A. E. Lindley, A. B., of Guilford College, 08, for the past two years has given his entire time to the association work.

An attractive college calendar and handbook are issued by the association annually. In the handbook are presented the various phases of college life, with necessary information for new students. This book will be gladly sent to prospective students on application to the secretary.

### Officers.

O. R. Magill.....	President
W. C. Journey.....	Vice President
M. D. Broadfoot.....	Recording Secretary
W. C. Sharborough.....	Corresponding Secretary
E. M. Sledge.....	Treasurer
A. E. Lindley.....	General Secretary

## LITERARY SOCIETIES.

The literary societies, the Philotechnic and Dialectic, furnish a valuable supplement to the academic work of the college. They are supported entirely by the students, who take great interest in them, about two-thirds of the students usually being enrolled as members. Their meetings are held weekly on Saturday evening, and are always open to visitors. Their exercises, which consist of debates, declamations, and occasional essays, are well fitted to give students the practical acquaintance with parliamentary usage and tactics of debate, and the ease and readiness of public speaking, so useful in every walk of life.

Each society has made the beginning of a library for the use of its members, which will be added to from time to time, as their means permit.

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**The College Reflector**, published by the literary societies, is devoted to educational, literary, and industrial topics. It will endeavor to give an accurate account of the working of the college in its various departments. Though designed primarily to encourage English composition among the society members, space will be given for the publication of public lectures by members of the faculty, and others, and the orations and essays of students of the college. The price is one dollar in advance, per scholastic year. Sample copies are sent free to any address. All communications should be addressed to Business Manager, College Reflector, Agricultural College, Miss.

## ALUMNI ASSOCIATION.

### Officers.

J. J. Gill, '89, Starkville, Miss.....	President
T. P. Guyton, '98, Kosciusko, Miss.....	1st Vice-President
I. D. Sessums, '98, Agric. College, Miss.....	2nd Vice-Pres.
T. W. Davis, '03, Agricultural College, Miss.....	Secretary
A. J. Moore, '92, Agricultural College, Miss.....	Treasurer

### Executive Committee.

I. H. Evans, '91.....	West Point, Miss.
W. W. Magruder, '87.....	Starkville, Miss.
W. E. Pegues, '85.....	Tupelo, Miss.

The object of the association is to arouse and to strengthen friendly feelings among the members of the different graduating classes, and to aid the college in its noble work of upbuilding the industrial interests of the state.

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### LIBRARY.

T. W. DAVIS, Librarian.

The library is the common laboratory for all departments of college work. We maintain the open shelf system because we believe that contact with books on the shelves arouses a desire to know something of what the books contain. There are about twelve thousand volumes in the library, all of which are accessible to students. We are especially interested in perfecting our reference section, for it is here that the most important work is done in college. In addition to the books, the library subscribes to the leading periodicals of the day. Our bound volumes of magazines are indispensable as books of reference.

We receive more than a hundred periodicals gratis from the publishers, for which we feel under many obligations. The county newspapers are eagerly read by the students and through them they keep in touch with the affairs in their respective counties.



# SCHOOL OF AGRICULTURE.

## FACULTY.

J. C. HARDY, A. M., LL. D.	President of the College.
W. H. MAGRUDER, A. M., LL. D.,	Vice President and Professor of English.
W. L. HUTCHINSON, M. Sc.	Director of the School.
W. F. HAND, M. Sc., Ph. D.	Professor of Chemistry.
E. R. LLOYD, M. Sc.	Professor of Agriculture.
J. S. MOORE, M. Sc.	Professor of Dairy Husbandry.
A. SMITH	Professor of Animal Husbandry.
GEORGE L. CLOTHIER, M. S., M. F.,	Professor of Botany and Forestry.
A. B. McKAY, B. Sc.	Professor of Horticulture.
JAMES LEWIS, M. D. C.	Professor of Veterinary Science.
R. W. HARNED, B. S. A.	Acting Professor of Zoology.
J. O. MORGAN, B. Agr., M. S., Ph. D.	Professor of Agronomy.
J. E. WAGGONER, B. S.	Professor of Rural Engineering.
J. R. RICKS, M. Sc.	Associate Professor of Agronomy.
H. C. THOMPSON, B. S. (H. and F.)	Assistant Professor of Horticulture.
J. P. KERR	Instructor in Poultry Husbandry.
S. F. BLUMENFELD, B. Sc.	Instructor in Zoology.
B. M. WALKER, M. Sc., Ph. D.	Professor of Mathematics.
J. C. HERBERT, M. Sc.	Professor of History and Civics.
ALBERT BARNES, M. M. E.	Professor of Mechanical Engineering.
W. N. LOGAN, Ph. D.,	Professor of Geology and Mining Engineering.
JAMES V. BOWEN, Ph. B.	Professor of Foreign Languages.
GEORGE GOODALE, Captain, 23d Infantry, U. S. A.,	Professor of Military Science and Tactics.
D. W. BROWN, C. E.,	Professor of Civil Engineering and Drawing.
C. E. REID, B. S. in E. E.,	Professor of Physics and Electrical Engineering.
F. J. WEDDELL, B. Sc.	Associate Professor of English.
J. P. MONTGOMERY, A. M., Ph. D.,	Associate Professor of Chemistry.
C. R. STARK, B. Sc.	Associate Professor of Mathematics.
V. W. BRAGG,	Associate Professor of Manual Training.
L. L. PATTERSON, A. B., A. M., M. E.,	Associate Professor of Physics.
M. L. FREEMAN, M. Sc.	Assistant Professor of Drawing.
F. M. DARNALL, A. B.	Assistant Professor of English.
HUGH CRITZ, B. Sc.	Assistant Professor of Mathematics.

A. W. GARNER, B. Sc., Ph. M., Assistant Professor of History and Civics.

A. M. MAXWELL.....Instructor in Bookkeeping.

F. D. MELLEN, A. B., M. Sc.....Instructor in English.

J. S. WALLACE, B. Sc.....Instructor in Mathematics.

A. L. LOVE, B. Sc.....Instructor in English.

H. J. SMITH, B. Sc.....Instructor in Chemistry.

W. W. ROUTTEN, Instructor in Manual Training and Wood Shop.

M. W. PHILLIPS, A. M.....Instructor in Foreign Languages.

H. D. McMURTRAY, B. Sc.....Instructor in Physics.

W. D. CHADWICK, A. B., A. M.....Physical Director.

### COURSE OF STUDY.

The School of Agriculture comprises (1) Agronomy, (2) Animal Husbandry, (3) Dairy Husbandry, (4) Veterinary Science, (5) Horticulture, (6) Chemistry, (7) Botany and Forestry, (8) Zoology, (9) Rural Engineering, (10) Poultry, (11) Farmers' Institutes, and (12) The Agricultural Experiment Station.

The same course of study is offered all students who elect their work in the School of Agriculture, up to the beginning of the senior year. In the senior year the equivalent of seven full term studies is elective.

**Graduate Work.**—Graduates who wish to obtain a Master's degree, or to pursue their studies beyond graduation, are offered advanced courses in the school of agriculture. For "requirements and the lines of work see "Degrees" and the courses given in the several departments of the school.

**Short Courses.**—For those who can not spare the time to take a full course, short courses are provided, so that the student may give his entire time to agricultural subjects.

**Equipment.**—The college owns and operates 2,000 acres of land. In the dairy herd there are about one hundred cows, and the following breeds are represented: Jerseys, Red Polls, Shorthorns and Holsteins. There are, also,

grades of these breeds. In the beef herd there are about one hundred head of cattle, consisting of Angus, Herefords, and Shorthorns. Other live stock are hogs, stallions, mares, jennets, and a jack; and there is, also, a well equipped poultry plant.

There are good barns, sheds, etc., for handling the live stock and farm products.

The agricultural building is one of the best at the college and furnishes good section rooms, offices and laboratories for most of the departments of the school of agriculture. The chemical and dairy departments have separate buildings. The veterinarian, also, has a hospital for clinics and the care of sick animals. There is a herbarium of flowering plants, a cabinet collection of insects and a collection of economic fungi. The horticultural department has modern green houses, and other propagating structures.

**Admission.**—Students elect the school they will enter at the beginning of the second term of their freshman year. Freshmen study algebra, anatomy and physiology, English history and book-keeping the first term. For requirements to enter the freshman class, see "Conditions of Admission."

**Expenses.**—The necessary expenses need not exceed \$125 per session, and students in the school of agriculture may perform certain work in the fields for which they receive eight cents an hour, thereby defraying a part of their expenses.

Young men desiring an education, but without means to attend college, may come and work on the farm until they can save enough to enter college and take a regular course.

# SCHOOL OF ENGINEERING.

## FACULTY.

J. C. HARDY, A. M., LL. D.	President of the College.
W. H. MAGRUDER, A. M., LL. D.,	Vice President and Professor of English.
B. M. WALKER, M. Sc., Ph. D.,	Director and Professor of Mathematics.
ALBERT BARNES, M. M. E.,	Professor of Mechanical Engineering.
W. N. LOGAN, A. M., Ph. D.,	Professor of Geology and Mining Engineering.
D. WALLER BROWN, C. E.,	Professor of Civil Engineering and Drawing.
C. E. REID, B. S. in E. E.,	Professor of Physics and Electrical Engineering.
C. R. STARK, B. Sc.	Associate Professor of Mathematics.
R. C. CARPENTER, B. Sc.,	Associate Professor of Mechanical Engineering and Superintendent of Power Plant.
V. W. BRAGG	Associate Professor of Manual Training.
J. R. RICKS, M. Sc.,	Associate Professor of Agronomy and Geology.
L. L. PATTERSON, A. B., A. M., M. E.,	Associate Professor of Physics and Electrical Engineering.
H. CRITZ, B. Sc.	Assistant Professor of Mathematics.
M. L. FREEMAN, M. Sc.	Assistant Professor of Drawing.
J. S. WALLACE, B. Sc.	Instructor in Mathematics.
T. M. SPINKS, B. Sc.	Instructor in Machine Shop Practice.
W. W. ROUTTEN	Instructor in Wood Shop.
H. D. McMURTRAY, B. Sc.	Instructor in Physics.
* M. T. BIRCH, B. Sc.	Fellow in Mechanical Engineering.
N. C. MONCRIEF, B. Sc.	Fellow in Civil Engineering.
W. B. MONTGOMERY, B. Sc.	Fellow in Mechanical Engineering.
J. C. HERBERT, M. Sc.	Professor of History and Civics.
W. F. HAND, M. Sc., Ph. D.	Professor of Chemistry.
G. S. GOODALE, Captain 23d Infantry, U. S. A.,	Professor of Military Science and Tactics.
F. J. WEDDELL, B. Sc.	Associate Professor of English.
J. P. MONTGOMERY, A. M., Ph. D.,	Associate Professor of Chemistry.
F. M. DARNALL, A. B.	Assistant Professor of English.

\*Resigned January 1st, 1910.

A. W. GARNER, B. Sc., Ph. M.....	Assistant Professor of History.
A. M. MAXWELL.....	Instructor in Bookkeeping.
F. D. MELLEN, A. B., M. Sc.....	Instructor in English.
ALBERT L. LOVE, B. Sc.....	Instructor in English.

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## SCHOOL OF ENGINEERING.

The School of Engineering comprises the Departments of Mathematics, Mechanical Engineering, Physics and Electrical Engineering, Civil Engineering and Drawing, Geology and Mining Engineering.

It offers in each of the great divisions of engineering—mechanical, electrical, civil, and mining—a thorough course of instruction in the scientific principles and an introduction in the practice of the profession. The work is mainly technical, requires preparation of a high order, and an exhaustive effort in the courses themselves. Each course requires four years for completion and leads to the degree of Bachelor of Science.

The work of the freshman and sophomore years is common to all students of this school, so that a choice between the different courses need not be made until the beginning of the junior year. The general objects of the several courses are, briefly, as follows:

The course in mechanical engineering is designed to train the student in those technical and scientific subjects in which the engineer must be well grounded and to afford the student an opportunity to specialize in the direction of the mechanical engineering profession. Special stress is laid upon the preparation of the necessary working drawings, the manual training work in the wood shop, the work in the forge, foundry, and machine shops, a familiarity with the operations of power and electric light plants, the construction of power systems, and original research work in the mechanical laboratory.

The course in electrical engineering is designed to train the student in those fundamental principles of me-



chanics and electricity which form the basis on which the engineer must build, and to afford the student an opportunity for specialization in the electrical engineering profession. These students take the regular practical courses and shop work with the mechanical engineers and have special stress laid on a familiarity with power and light plants, the operation of direct and alternating current incandescent, arc, and power systems; the principles of alternating currents and machinery, the installation of electric light systems, power use and transmission, and original research work in the electrical laboratory.

The course in civil and mining engineering has for its object to impart as broad a scientific training as the length of the course and the essential studies will allow, and to afford the student an opportunity to specialize along some line in civil and mining engineering. Strict emphasis is laid on work in surveying, geology, and field methods which is so valuable to young engineers; mechanics and its applications to the designs of roofs and bridges and other structures; railway engineering, railway location and construction, masonry construction and foundation, bridge designs, water supply, and sanitary engineering.

In each of these courses a great deal of time is required for the practical work in the field, shops, and laboratories; but every engineer knows and appreciates full well the benefit of this training and experience. It is our aim to train our students to be independent and efficient workers and to adopt the methods of professional engineers. All engineering students are advised to spend their vacations in factories, repair shops, power and electric light plants, and with engineering corps in the field, in order to obtain commercial experience, that they may better appreciate the relations of their technical training and actual work.

In addition to the technical training, all engineering students receive instruction in English, chemistry, history, civics, political economy, and military science and tactics.

**Special Courses.**—Special courses are arranged in the School of Engineering to accommodate persons of mature years who desire to pursue some special line of engineering work without becoming candidates for a degree.

**Graduate Courses.**—Advanced courses, open to graduates only, are offered by the several departments in the School of Engineering.

#### **EQUIPMENT.**

The wood shop, forge shop, foundry, and machine shop are equipped with tools and machines of modern type; the laboratories in the departments of mechanical engineering, electrical engineering, and geology, and mining engineering, are being equipped with apparatus and machinery of modern pattern from the best makers; and the instruments in the department of civil engineering comprise transits, levels, compasses, rods, chains, tapes, plane tables, and other minor instruments.

#### **ADMISSION.**

The same rules apply in regard to admission to the School of Engineering as apply for admission to the college and are given elsewhere in the catalogue.

#### **EXPENSES.**

The expenses of students in the School of Engineering are the regular college expenses and are given under that heading in the catalogue.

#### **ENGINEERING CLUB.**

The students in the school of engineering have organized a club which is known as the Mississippi Association of Student Engineers. The object of the association is to promote interest in, and increase our knowledge of the science of engineering.

# SCHOOL OF TEXTILE INDUSTRY.

## FACULTY.

J. C. HARDY, A. M., LL. D.	President of the College
W. H. MAGRUDER, A. M., LL. D.,	Vice President and Professor of English.
WILLIAM R. MEADOWS, A. B., B. S.,	Director and Professor of Yarn Manufacture.
JACK P. MONTGOMERY, A. M., Ph. D.,	Associate Professor of Chemistry, in charge of Textile Chemistry and Dyeing.
LITTLETON C. F. HAMBLEY,	Instructor in Designing and Weaving.
WALTER M. CRUMP	Instructor in Carding and Spinning.
J. C. HERBERT, M. Sc.	Professor of History and Civic Education.
ALBERT BARNES, M. M. E.	Professor of Mechanical Engineering.
Wm. N. LOGAN, Ph. D.	Professor of Geology.
H. S. NOEL, B. Sc., M. D.	Professor of Anatomy and Physiology.
G. S. GOODALE, Captain 23d U. S. A. Infantry,	Professor of Military Science and Tactics.
C. E. REID, B. S. in E. E.	Professor of Electrical Engineering.
F. J. WEDDELL, B. Sc.	Associate Professor of English.
C. R. STARK, B. Sc.	Associate Professor of Mathematics.
V. W. BRAGG	Associate Professor of Manual Training.
L. L. PATTERSON, A. B., A. M., M. E.,	Associate Professor of Physics and Electrical Engineering.
W. D. CHADWICK, A. B., A. M.	Physical Director.
T. W. DAVIS, B. Sc.	Librarian.
M. L. FREEMAN, M. Sc.	Assistant Professor of Drawing.
F. M. DARNALL, A. B.	Assistant Professor of English.
HUGH CRITZ, B. Sc.	Assistant Professor of Mathematics.
A. M. MAXWELL	Instructor in Book-keeping.
T. M. SPINKS, B. Sc.	Instructor in Machine Shop Practice.
F. D. MELLEN, A. B., M. Sc.	Instructor in English.
A. L. LOVE, B. Sc.	Instructor in English.
J. S. WALLACE, B. Sc.	Instructor in Mathematics.
H. D. McMURTRAY, B. Sc.	Instructor in Physics.
WARREN INGOLD, A. B., M. S.,	Acting Instructor in Chemistry.
A. E. MULLINS, B. Sc.	Instructor in English.

**The Textile Building.**—The home of the Textile School is situated at the east end of the campus on a hill overlooking the rest of the college buildings. Two hundred

and twenty-four feet long, two stories high, with two towers and a facade, it presents a most imposing appearance.

The style of construction is known as the "slow-burning type." Floor and roof beams are 12x16 timbers, supported on 8-inch cylindrical columns. Double floors are used throughout. The picker room and the engine room are separated from the rest of the building by fire walls, the openings in which are supplied with standard fire doors, so arranged as to close automatically in case of fire. Entrances from the main buildings to the towers are similarly equipped. There is a complete installation of automatic sprinklers, so that the possibility of a fire's gaining headway is reduced to a minimum. In addition to all this apparatus the building is directly connected with the fire pump at the central power station.

The entire second story is used for practical work in the manufacture of raw cotton into yarn. On the lower floor are the hand and power looms, the engine room, the recitation rooms, chemical laboratory and lecture room and the director's office.

A brick wing, one story high, adjoins the main building on the back. In it are located a thoroughly equipped dye-house and a boiler room.

The building was erected at a cost of more than thirty thousand dollars, and has an equipment valued at more than seventy thousand dollars. A large amount of this admirable equipment was donated by machine builders.

The School in Textile Industry is one of the three schools composing the college proper. Its function is to supply strictly technical training in the theory and practice of cotton manufacturing in all its branches.

At the beginning of the second term of the freshman year students in regular standing in the college may elect to pursue studies in the School of Textile Industry. At the end of the fourth, or senior year, after having completed the assigned studies, and after having passed



satisfactory examinations therein, students receive the degree of Bachelor of Science. Upon completing the course the student will have received two years' instruction in such academic and mechanical subjects as are considered to be a necessary foundation for technical work, and two years of theoretical and practical work in subjects relating directly to the cotton manufacturing industry. The existence of academic departments in the college gives the student the opportunity to pursue studies in English, mathematics, history, and physics, so essential to persons in every walk in life; and the admirably complete equipment of the Textile School enables him to become in some degree familiar with every machine used in a cotton mill.

The School embraces the Departments of Yarn Manufacture, Textile Chemistry and Dyeing, Hand and Power Weaving, Designing and Fabric Analysis.

**Yarn Manufacture.**—Under the head of Yarn Manufacture is included a theoretical and practical study of all the processes and machines used in the manufacture of cotton yarn and in its preparation for the weave shop or yarn market; picking, carding, combing, drawing, roving, spinning, spooling, twisting, warping, slashing and putting yarn in convenient form for handling.

The courses of instruction in the department are so arranged that the student first acquires a familiarity with the operation of the machines as a mill worker would do. After he has learned to run the machines, he begins to study the theory of their construction and manipulation, this at first in a general way, and later with careful attention to detail. The yarn used in other departments of the school is all spun by the students.

**Textile Chemistry and Dyeing.**—The courses offered by the Department of Textile Chemistry and Dyeing have been so arranged that a student may follow a direct line of work from the elementary chemistry usually taught in



preparatory schools to the problems of color chemistry dealt with here.

The work in textile chemistry and dyeing begins with the first term Sophomore and continues through the Junior and Senior years. The work includes general inorganic chemistry, the usual methods of analytical chemistry as applied in the qualitative analysis of various bases, acids and salts, and the quantitative determination of the active constituents of some of the more important mordants and assistants used in the textile industry; the leading facts and principles of organic chemistry, as exemplified in the preparation and testing of fatty compounds; a special study of the synthetic coloring matters as set forth in the production of certain aromatic compounds representing the substantive, acid, basic and mordant dyes; the application of these dyes to textile material. As a whole, the course is sufficiently broad to be a commentary on whatever preliminary training in chemistry the student may have had, and to serve as an introduction to work on a commercial scale.

The work is accomplished by lectures followed by laboratory exercises, in which an attempt is made to direct the work without, at the same time, actually telling the student all there is to be learned from it. Care is taken to develop accuracy in observations, neatness, and clearness in written descriptions of the same. In all laboratory work the student is required to make some suitable written record of the operations performed. In the more elementary portions of the work offered in the course, such a record may be completed immediately after the work has been finished, while in those cases where the final results of the experiment must be ascertained in part by subsequent calculations, reports are not to be submitted until the student has had time to consult references on the subject. In preparation work, when samples showing the results or the importance of the operation described are

obtainable, these must be submitted with the report. No work will be regarded as satisfactory until samples and reports have been examined and accepted by the instructor. A stated amount of laboratory work is prescribed, and this must be completed by each student who finishes the course.

**Hand and Power Weaving.**—The courses in weaving are required of regular students and are arranged to cover the entire course.

Students are taught the fundamental principles of weaving on hand looms upon which they produce simple designs. They are then taught to operate power looms, the various types of looms following each other in a sequence which bears a direct relation to their complicated nature. In the junior and senior years original work predominates.

**Designing and Fabric Analysis.**—The courses in designing and fabric analysis are continuous, commencing with a study of the plain weave and ending with the complicated designs woven on Jacquard looms. Fabrics are analyzed and the manner of representing them on paper and of producing them in the loom is taught.

**Special Courses.**—In addition to the course scheduled on page 70 and adapted to those students who are candidates for a degree, there are offered three special courses, one in cotton-manufacturing exclusive of chemistry and dyeing, another in chemistry and dyeing; and a third, which is a combination of the first and second, is arranged according to individual requirements.

The arrangement of the special courses is to provide for students, such as college graduates who decide to enter the cotton mill business, and the profession of chemist, and to give to men working in mills an opportunity to secure the sort of technical and theoretical instruction which it is difficult to obtain in the mill itself.

The requirements in the first of these special courses cover two years, as outlined below:

### SPECIAL COTTON MANUFACTURING COURSE.

FIRST YEAR.		
FIRST TERM.	SECOND TERM.	THIRD TERM.
Yarn Manufacture 6	Yarn Manufacture 6	Yarn Manufacture 6
Weaving 3	Weaving 3	Weaving 3
Designing 4	Designing 4	Designing 4
Designing 8	Designing 8	Designing 8
Yarn Manufacture 7	Yarn Manufacture 7	Yarn Manufacture 7
Drawing	Weaving 9	Weaving 9
	Drawing	Drawing
		Designing 9
SECOND YEAR.		
Yarn Manufacture 8	Yarn Manufacture 8	Yarn Manufacture 8
Yarn Manufacture 5	Yarn Manufacture 5	Yarn Manufacture 5
Weaving 7	Weaving 7	Weaving 7
Weaving 10	Weaving 10	Weaving 10
Designing 5	Designing 5	Designing 5
Designing 7	Designing 7	Designing 7
Mechanical Engineering	Mechan. Engineering	Mechan. Engineering
Designing 10	Designing 10	Yarn Manufacture 10

### EQUIPMENT.

All strictly textile work is carried on in a building erected especially for the purpose and described under the head of Buildings and Grounds. It has been the object of the erectors to make the building resemble in every respect possible the best modern practice in cotton mill construction, and to make its equipment complete in every particular. The attempt has been successful so that nearly everything of importance needed in a cotton mill is already in place.

Two sources of motive power, steam and electricity, are provided, and either may be used. The thoroughly equipped steam installation is driven by a one hundred and twenty-five horse power Corliss engine, connected to shaft-

ing by the Dodge rope drive. Steam is generated in a boiler located in a boiler house recently completed.

Normally the motive power in use is electricity supplied from the college power house. The various machines in the school are arranged in groups driven by nineteen separate motors. Each motor is supplied with a switch, starting box, and automatic circuit-breaker; spinning and roving frame motors are additionally provided with field rheostats to facilitate accurate speed regulation. The motors are suspended from the ceiling in typical cotton mill style, and the shafting, pulleys, etc., are installed in accordance with the best cotton mill practice.

The carding and spinning equipment is admirable, comprising machines for every process from picking to slashing. All the American manufactures of cotton machinery are represented, so that the student becomes familiar with the individual characteristics of the various makes of machinery. The equipment is more complete than that of any other cotton textile school in the country.

In weaving there is a similarly good equipment, making it possible to weave cotton fabrics of practically every kind. The looms are all of the approved makes.

The work in Textile Chemistry and Dyeing is carried on in an experimental laboratory for chemistry, an experimental laboratory for dyeing and a practical dyehouse. Adjacent are the class-room, the balance room, and the instructor's office and laboratory.

The subject of dyeing is taught in an annex to the main building, having a floor space of 2,000 square feet. A portion of this is taken up with the work tables, and apparatus necessary for experimental tests, while the remainder is occupied with machines and appliances used for dyeing larger quantities of material than those dealt with in an experimental way. Here the student will be taught to apply on a practical scale the knowledge gained by working with small quantities of cotton in experimental tests, and

to compare results in those cases where all factors can be controlled easily with those in which the greater amount of material and the different sources of heat, etc., make necessary certain modification of the formula worked out on an experimental basis.

An enumeration in detail of the entire equipment is too long for this catalogue. Machine makers and dye-stuff firms have been most generous in their donations to the school, and we wish here to make acknowledgment of their generosity. These matters are referred to more at length in a special textile circular.



# SCHOOL OF INDUSTRIAL PEDAGOGY.

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## FACULTY.

J. C. HARDY, A. M., LL. D.	President of the College
W. H. MAGRUDER, A. M., LL. D.,	Vice-President, Professor of English.
D. C. HULL, M. Sc.,	Director, Professor of Industrial Pedagogy.
B. M. WALKER, M. Sc., Ph. D.	Professor of Mathematics.
J. C. HERBERT, M. Sc.	Professor of History and Civics.
W. F. HAND, M. Sc., Ph. D.	Professor of Chemistry.
W. N. LOGAN, A. M., Ph. D.,	Professor of Civil and Mining Engineering.
ARCHIBALD SMITH	Professor of Animal Husbandry.
J. V. BOWEN, Ph. B.	Professor of Foreign Languages.
H. L. NOEL, B. Sc., M. D.,	Professor of Anatomy and Physiology.
G. L. CLOTHIER, M. S., M. F.,	Professor of Botany and Forestry.
A. B. McKAY, B. Sc.	Professor of Horticulture.
G. S. GOODALE, Captain 23d Infantry, U. S. A.,	Professor of Military Science and Tactics.
JAMES LEWIS, B. S., M. D. C.	Professor of Veterinary Surgery.
R. W. HARNED, B. S. A.	Professor of Biology.
J. R. RICKS, M. Sc.	Associate Professor of Agronomy.
F. J. WEDDELL, B. Sc.	Associate Professor of English.
J. P. MONTGOMERY, A. M., Ph. D.,	Associate Professor of Chemistry.
C. R. STARK, B. Sc.	Associate Professor of Mathematics.
V. W. BRAGG,	Associate Professor of Manual Training.
L. L. PATTERSON, A. M., M. E.,	Associate Professor of Physics and Electrical Engineering.
F. M. DARNALL, A. B.,	Assistant Professor of English.
HUGH CRITZ, B. Sc.	Assistant Professor of Mathematics.
A. W. GARNER, B. Sc., M. Sc.	Assistant Professor of History.
H. C. THOMPSON, B. S.	Assistant Professor of Horticulture.
A. M. MAXWELL	Instructor in Book-keeping.
M. L. FREEMAN, M. Sc.	Instructor in Drawing.
F. D. MELLEN, A. B., M. Sc.	Instructor in English.
A. L. LOVE, B. Sc.	Instructor in English.
W. W. ROUTTEN	Instructor in Manual Training.
J. S. WALLACE, B. Sc.	Instructor in Mathematics.
M. W. PHILLIPS, A. M.	Instructor in Foreign Languages.
WARREN INGOLD, A. B., M. S.	Instructor in Chemistry.

J. E. McKELL, B. Sc.....Instructor in Wood Shop Practice.  
T. F. JACKSON, B. Sc., Instructor in Elementary Science and Agriculture.  
J. D. CORK, B. Sc.....Instructor in History.  
G. G. SNOW, B. Sc.....Instructor in English.  
J. M. RIGBY, B. Sc.....Instructor in Mathematics.  
H. D. McMURTRAY, B. Sc.....Instructor in Physics.  
J. S. WHITWORTH, B. Sc.....Instructor in English Composition.

## PURPOSE AND PLAN OF ORGANIZATION.

The effort of the college to serve the educational interests of the state dates from the establishment of the Department of Industrial Pedagogy in 1904. In the fall of that year, the first students were enrolled and actual work began. There has been a good enrollment every year. This year one hundred and five students are taking the course.

In November, 1909, the head of the department in his biennial report to the President, said:

“The awakening of interest in all quarters in industrial education is nothing less than remarkable. This theme is coming almost to dominate the discussion in teachers’ meetings and educational assemblies, as is shown in the published proceedings of the Mississippi State Teachers’ Association, the recent conference for Education in the South, and the National Education Association. Everywhere the conviction is growing that the work of the school must be made to ‘fit up more closely’ to the conditions of practical life. Unquestionably the elementary education of the future, both rural and urban, is destined to be increasingly practical and industrial.

“The call will, therefore, be more and more insistent for teachers skilled in natural science, in agriculture, in manual training, in the arts and crafts, and in domestic science and art. For such teachers the educational interests of our state will look quite naturally to this institution. And certainly in our own state there can be for years to come no other place so well equipped for the train-

ing of such teachers. The farm, the live stock, the shops, the laboratories, all splendidly equipped, the industrial atmosphere, the democratic spirit,—all combine to make this institution the logical site for a great school of industrial education for the training of teachers.

“For the expansion of the department of industrial pedagogy into such a school, I am at present, and have been for months, thinking, planning and working. I believe the time is now ripe for such an extension of our work; and I respectfully ask for the following statement of plans for that purpose your usual patience and carefulness of consideration. These plans, briefly stated, provide for a four years’ course for the training of high school teachers, a two years’ course for the training of teachers for the common schools, a spring and summer course for teachers already at work and a model industrial school.”

Subsequently, a committee of the college faculty, appointed by the President to express its judgement upon certain recommendations made by the Professor of Industrial Pedagogy, brought in the following resolution, which the faculty unanimously adopted:

*Resolved*, That it is the sense of this faculty that the Department of Industrial Pedagogy should be enlarged into the School of Industrial Education, and made to include, in addition to the present four years’ course, an Annual Summer School, a two years’ course, a special course during the spring term of the regular session, and a short industrial course.

In his biennial report, 1909, approved by the Board of Trustees, the President said:

“I recommend that this department be known hereafter as ‘The School of Industrial Education,’ and that the work formerly done by the Preparatory Department be transferred to this school and so modified as to meet the demands of the resolution approved by the faculty; and

that Professor Hull's title be changed to Dean of the School of Industrial Education and Professor of Industrial Pedagogy. In my judgment this will give an ideal organization for the institution and will enable us to meet every demand made by our growing and complex civilization."

By authority, therefore, of this act of the Board of Trustees approving the President's recommendation, the School of Industrial Education, beginning with the session of 1910-1911, will offer the courses of instruction named in the above mentioned resolution.

### THE FOUR YEARS' COURSE.

The four year course is adapted to the needs of the average boy who comes to the college with only so much of previous training as will enable him to enter the regular freshman class. Teachers and others who wish to take advantage of the instruction offered here may enter at any time with such advanced standing as their previous preparation, shown by examination or certificate from a reputable school, may warrant.

Instruction and training in this course are designed to furnish (a) a liberal culture in language, history, science, and mathematics, (b) a thorough acquaintance with the theory and practice of manual training or the elements of agriculture, and (c) the broadest possible professional knowledge within the limits set.

Students in Industrial Pedagogy receive instruction in the languages, mathematics, history, and science in the regular college departments of English, foreign languages, mathematics, history and civics, chemistry, physics, and electrical engineering, biology, geology and mining engineering. The principles of agriculture are taught by the departments of agriculture and horticulture, while the pedagogy of the subject is emphasized by the professor of industrial pedagogy.



Emphasis is laid upon manual training and elementary agriculture. This is justified by the growing demand for these subjects as parts of the public school curriculum. The teacher of the future, who, in addition to thorough training in the branches ordinarily taught in the public schools, has attained proficiency in these lines of school work, will find himself in possession of a most potent means of enriching his curriculum, arousing interest in pupils and patrons, and increasing his own efficiency and usefulness.

Instruction in the history and science of education is provided in a series of courses given by the professor of industrial pedagogy, and is intended to produce that familiarity with past and present educational thought and experience which is an essential characteristic of the broad-gauged, thoroughly equipped, progressive school man, able to comprehend and direct the influences that make themselves felt at every turn in his work.

For a list of the branches in which instruction is provided in this course, see page 71 of the catalogue.

#### THE TWO YEARS' TRAINING COURSE.

The following extract with reference to the two years training course, showing the purpose for which it was organized, is taken from page 196 of the biennial report for 1908-1909.

"The four years' man, useful as he may be in other respects, cannot be expected to serve, except indirectly, the interests of the rural common schools. He does not teach in them. He naturally and rightly goes where remuneration is largest; that is, into the high schools or into the city and county superintendencies. We need, therefore, a shorter course, where young men of merit, unable to stay the full four years, can be given such training in industrial, scientific and literary subjects as will fit them for effective work in the common schools. For men with such training, the common schools are already making



a strong appeal; as is shown by the number of our undergraduates and preparatory students who engage in teaching."

An outline of the subjects taught in this course is inserted herewith. In each subject the work will be so organized and presented as to serve best the needs of prospective teachers of the rural schools.

The work of the first year of this course is based largely upon the requirements of the examination for state license in Mississippi. The work of the second year completes these requirements, offers instruction in pedagogy, and prepares the student for the sophomore class of the four years' course.

### OUTLINE OF THE TWO YEARS' TRAINING COURSE.

FIRST YEAR.			
	1 T	2 T	3 T
Agriculture .....	4--2	4--2	
Arithmetic .....	5--0	5--0	5--0
Farm Accounts .....		0--2	0--4
Civil Government .....		3--0	2--0
Grammar and Composition .....	5--0	5--0	5--0
Manual Arts .....	0--4	0--2	0--2
Methods .....	5--0		
Physiology .....	3--0	2--0	
U. S. History .....		3--0	5--0
Elective:			5--0
Mississippi History, or Geography			
	22--6	22--6	22--6
SECOND YEAR.			
	1 T	2 T	3 T
Agriculture .....	4--2	4--2	4--2
Algebra .....	5--0	5--0	5--0
Botany .....			5--0
English History .....	5--0		
Manual Arts .....	0--4	0--4	0--4
Pedagogy .....	3--0	3--0	4--0
Physiography .....		5--0	
Rhetoric and Composition .....	5--0	5--0	5--0
	22--6	22--6	23--6

## THE TEACHERS' REVIEW COURSE.

Desiring to render every possible service to the educational interests of the state, and hoping to render more effective the public school system, the School of Industrial Education offers a review course in the spring term for teachers who have taught during the winter and who desire a longer period of study than the summer school offers. Special preparation will be made for the accommodation of such teachers; but those expecting to attend should notify Secretary A. J. Moore, at least two weeks before they expect to arrive at the college. This course will open about April 1st.

In the spring of 1910, the following subjects will be offered:

- Agriculture.
- Arithmetic.
- Civil Government.
- Grammar.
- Farm Accounts.
- History.
- Manual Arts.
- Pedagogy.

Should there be a sufficient demand, courses in other public school branches will be organized.

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## THE ANNUAL SUMMER SCHOOL FOR TEACHERS.

Dating from its organization, the Department of Industrial Pedagogy, with the co-operation of the other college departments has been the instrument in the hands of the college and the State Department of Public Instruction for maintaining a four weeks summer school for teachers. The attendance has varied from 200 to 500 teachers; large emphasis has been placed upon industrial courses; and a definite service has been rendered to the cause of public education.

In future the term will be extended to six weeks and the work will be graded and placed upon such a basis of thoroughness as to admit of college credit being given for all courses completed. During this time the entire college plant is available for the use of the teachers; and it is therefore possible to offer a varied and helpful curriculum and to accomodate comfortably a large number of teachers.

A special bulletin in regard to the work of the summer school is issued in April every year. Consequently, these details are omitted from this catalogue.

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### THE SHORT INDUSTRIAL COURSE.

On page 54 of the biennial report for 1908-1909, the President states the purpose of the short industrial course, as follows:

"This short industrial course will be composed of two classes of students; one class represented by the boys who come here without a dollar and work during the day and go to school at night; boys who aspire to something higher and better in life, and yet for the means of accomplishing their desire, have to depend entirely upon their own work. These boys are taken care of by our Practical Working Boys' Course, the establishment of which I am more proud than of any other act of my administration. The other class will be the boys and young men, who for many reasons, have been denied the opportunity of receiving an academic education, but who desire to be trained industrially for some specific work. These men do not desire to prepare, from an academic standpoint, for the freshman class here or in any other institution; they do not want additional academic training; they desire industrial training. And in my opinion, industrial training is exactly the kind of training they need and that the state needs. We must have privates of industry who are efficient, as well as captains of industry who are able. Our people must appre-

ciate that education is going to have in the future a broader meaning than heretofore, and that the man who desires to have his hands and eyes and fingers educated is entitled to as much consideration as the man who merely desires to have his memory and judgment and imagination educated. Our people must realize that the state will derive as much benefit from having men educated from an industrial standpoint as we now derive from men educated from an academic and literary standpoint. The business world is asking the young man not 'what do you know,' but, 'what can you do,' and the man who can do is in demand everywhere, whereas, the man who merely knows is frequently forced to beg for his bread, being unable to accomplish anything in the practical affairs of life.

It is thus seen that the purpose of this course is to help young men who desire industrial training, but have neither the time nor the means to devote to one of the longer courses. Course A is for young men who have the means to defray the greater part of their expenses without labor. Course B is for men without means, who work during the day and attend school at night.

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#### OUTLINE OF THE SHORT INDUSTRIAL COURSES.

	Course A.		
	1 T	2 T	3 T
Agriculture .....	3--2	3--2	3--2
Arithmetic .....	5--0	5--0	5--0
Farm Accounts .....			0--4
Carpentry .....	0--8	0--4	
Government .....			2--0
Grammar and Composition .....	5--0	5--0	5--0
History .....		2--0	
Lectures on Farming .....		0--4	0--4
Practical Farming .....	0--10	0--8	0--8
	<hr/>	<hr/>	<hr/>
	13--20	15--18	15--18

## Course B.

(NIGHT SCHOOL)

	Entire Year.
Arithmetic .....	3--0
Agriculture .....	2--0
Farm Accounts .....	2--0
English .....	3--0

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## DEGREES.

The degree of Bachelor of Science (B. Sc.) is conferred upon students who spend at least one year in resident study and complete any one of the full courses by passing all the required examinations.

The degree of Master of Science (M. Sc.) shall be conferred on any person who has taken the Bachelor's degree in this college or in any other college with equivalent courses, who pursues and completes the graduate course prescribed and complies with the following requirements:

1. Candidates for the Master's Degree shall matriculate as graduate students.

2. Graduates of other colleges shall spend at least one scholastic year in resident study at this college; in the case of graduates from this college the foregoing residence requirements shall apply except in cases where the faculty may permit the candidate, on the recommendation of the head of the department in which his Major course lies, to do an equal amount of residence work in some other institution of like rank with this college.

3. The courses leading to the degree of Master of Science shall require for their completion an amount of work at least the equivalent of what can be done in one scholastic year wholly devoted to the work for the degree.

4. The candidate shall complete a Major and a Minor course of his own selection, to be chosen in those departments which offer courses for the Master's degree. The



Minor course shall be selected subject to the approval of the head of the department in which the Major course is taken, and shall occupy one-third the total time. If the student at any time changes his selection of a Major department, the work already done in that department shall not be counted towards the Master's degree, unless approved by the head of the new Major department.

5. The candidate shall have a reading knowledge of German, French, Spanish, or Latin to be certified by the department of Foreign Languages of this college, the choice to be approved by the head of the department in which the Major work is taken.

6. The candidate shall submit to the head of the department in which his Major work is taken at least three weeks before graduation an acceptable graduation thesis on a subject of investigation or study in the department in which the Major course is taken. The thesis shall be submitted to the department of English for its approval at least two weeks before commencement.

7. Application for the degree shall be filed with the secretary of the faculty not later than one month after the beginning of the session.

The only honorary degree conferred is that of Master of Progressive Agriculture (M. P. A.), bestowed upon those who have attained eminent success in some branch of agriculture.

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Note I.—In the following pages are given the requirements for graduation in the various courses. In these "degree requirements," the abbreviations: 1T, 2T, 3T, mean first term, second term, third term. The first number of each pair in each of these columns means the number of hours of theoretical or recitation work required each week and the second number indicates the number of hours of practical or laboratory work required each week. The

numbers following the name of each course refer to the course numbers in the detailed statement of "Departments of Instruction," which are arranged alphabetically in this catalogue immediately following these tables.

**Note II.**—In the senior year each student in the Agricultural School is required to elect enough work to give him a total of at least twenty-six course hours—a course hour being one hour of class or theoretical work or two hours of laboratory or practical work each week throughout a term. The elective work must be taken in the following subjects, viz.: Agronomy, 9, 10, 11; Animal Husbandry, 4, 5, 6, 7; Botany and Forestry, 8, 9, 10, 11, 12; Chemistry, 6, 7, 8, 9, and 10; Dairying, 5, 6, and 7; Zoology and Entomology, 8; Horticulture, 13, 14, and 15; Rural Engineering, —; Veterinary Science, 9, 10; Poultry, —; and German, 25. One term of History, 3 hours per week, may be elected in the second term of the senior year.

# REQUIREMENTS

## For the Degree of Bachelor of Science in Agriculture.

### FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.	
	1st T. 2nd T. 3d T.	
Agriculture 1 .....	0-4	0-4
Anatomy and Physiology 1.....	3-0	
Botany and Forestry 1 .....	0-2	2-4
Drawing 9.....	0-2	
English 1 .....	6-0	6-0
History and Civics 1, 7, 8.....	3-0	3-0
Mathematics 1, 2 .....	10-0	5-0
Mechanical Engineering 1, 3....	0-4	0-4
Military Science, 3 .....	0-2	0-2
Physiography.....	5-0	
Physics .....	0-2	5-2
Gymnasium .....	0-2	0-2

(See notes pages 64-65.)

### SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T. 2nd T. 3rd T.		
Agronomy 2 .....			3-2
Animal Husbandry 1, 2 .....			5-2
Botany and Forestry 2.....		2-4	2-4
Chemistry 1, 5 .....			5-5
Dairying 2 .....		4-2	
English 2, 3 .....		5-0	5-0
Zoology and Entomology 4 .....		3-2	
Horticulture 11 .....	4-2		
Mathematics 2, 3.....	5-0		5-0
Military Science 3 .....	0-2		0-2

### JUNIOR CLASS.

Agronomy 8 .....	4-4	
Animal Husbandry 3 .....	5-2	
Forestry 6.....	2-2	
Chemistry 2 .....		5-6
Dairying 4 .....		
English 4, 5.....	5-0	
History and Civics 6.....		4-4
Horticulture 12 .....	5-0	
Mathematics 8 .....	5-2	
Military Science 2, 3 .....	0-2	5-0
Veterinary Science .....		5-2
Zoology 1 .....		2-4
Rural Engineering.....	4-2	

### SENIOR CLASS.

Chemistry 3, 4 .....			5-3
Geology 2, 6.....			5-0
History and Civics 5.....			
Mathematics 12 .....		5-0	
Military Science 3 .....	0-2	0-2	0-2
Rural Engineering.....			5-3
Zoology and Entomology 2, 3.....	2-4	2-4	
Electives* .....	12-0	16-0	7-0

\*See note 2, page 65.

# REQUIREMENTS

## For the Degree of Bachelor of Science in Civil and Mining Engineering.

### FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3rd T.
Mathematics 1 .....	5-0	5-0	5-0
Anatomy and Physiology 1 ..	3-0		
Mathematics. 2 .....	5-0		
Drawing 9, 10, 16 .....	0-2	0-7	0-7
Military Science 3 .....	0-2	0-2	0-2
English 1 .....	6-0	6-0	6-0
History and Civics 1 .....	3-0		
Mathematics 4 .....		5-0	5-0
Geology and Mining Eng. 1 .....		5-0	
Mechanical Engineering 24, 2 ..	0-4	0-8	0-8

### JUNIOR CLASS.

Civil Engineering 1, 2, 3 .....	5-6	5-6	5-6
English 4, 5 .....	5-0	5-0	
Geology 3 .....	5-2	5-2	
Mathematics 7, 9, 10 .....	5-0	5-0	5-0
Mechanical Engineering 12 .....	0-4	0-4	
Military Science 2, 3 .....	0-2	0-2	5-2
Civil Engineering 18, 14 .....			5-3

### SOPHOMORE CLASS.

SUBJECT.	HRS PER WEEK.		
	1st T.	2d T.	3d T.
Chemistry 1 .....	5-4	5-4	
Drawing 13 .....	0-4	0-4	0-4
Military Science. 3 .....	0-2	0-2	0-2
English 2, 3 .....	5-0	5-0	5-0
Mechanical Engineering 7, 10 ..	0-4	0-4	0-4
History and Civics 9 .....			5-0
Mathematics 4, 6 .....	5-0	5-0	5-0
Physics 1 .....	5-4	5-4	5-4

### SENIOR CLASS.

Civil Engineering 4, 5, 6, 19 ....	5-6	5-3	10-6
Military Science 3 .....	0-2	0-2	0-2
English 7 .....	0-2	0-2	0-2
Geology 4, 5 .....	5-2	5-2	5-2
History and Civics 5, 6 .....		5-0	5-0
Mathematics 11, 13 .....	5-0	5-0	
Mechanical Engineering 19 .....	5-0	0-3	
Mineralogy 7, 8 .....	1-4	1-4	1-4

# REQUIREMENTS

## For the Degree of Bachelor of Science in Electrical Engineering.

### FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Mathematics 1 .....	5-0	5-0	5-0
Anatomy and Physiology 1 .....	3-0		
Mathematics 2 .....	5-0		
Drawing 9, 10, 16 .....	0-2	0-7	0-7
Military Science 3 .....	0-2	0-2	0-2
English 1 .....	6-0	6-0	6-0
History and Civics 1 .....	3-0		
Mathematics 4 .....		5-0	5-0
Geology and Mining 1 .....		0-8	0-8
Mechanical Engineering 24, 2 .....	0-4		

SUBJECT.	HRS. PER WEEK.		
	1st T.	2nd T.	3d T.
Chemistry 1 .....	5-4	5-4	
Drawing 13 .....	0-4	0-4	0-4
Military Science 3 .....	0-2	0-2	0-2
English 2, 3 .....	5-0	5-0	5-0
Mechanical Engineering 7, 10 .....	0-4	0-4	0-4
History and Civics 9 .....		5-0	5-0
Mathematics 4, 6 .....	5-0	5-0	5-0
Physics 1 .....	5-4	5-4	5-4

### SOPHOMORE CLASS.

### JUNIOR CLASS.

Drawing 14 .....	0-3	0-3	0-3
English 4, 5 .....	5-0	5-0	
Electrical Engineering 1, 2, 3 .....	5-3	5-3	5-3
Mathematics 7, 9, 10 .....	5-0	5-0	5-0
Mechanical Eng. 15, 16, 17 .....	5-3	5-3	5-3
Mechanical Engineering 12 .....	0-4	0-4	0-4
Military Science 2, 3 .....	0-2	0-2	5-2

### SENIOR CLASS.

Civil Engineering 1, 19 .....	5-3	5-0
Drawing 17 .....	0-3	0-3
Military Science 3 .....	0-2	0-2
Electrical Engineering 5, 6, 7 .....	5-6	5-6
English 7 .....	0-2	0-2
History and Civics 5, 6 .....		5-0
Mathematics 11, 13 .....	5-0	5-0
Mechanical Engineering 19, 21 .....	5-3	0-3
Mechanical Engineering 13 .....	0-3	0-4



# REQUIREMENTS

## For the Degree of Bachelor of Science in Mechanical Engineering.

### FRESHMAN CLASS.

SUBJECT.	HRS PER WEEK.		
	1st T.	2d T.	3d T.
(See note page 64.)			
Mathematics 1 .....	5-0	5-0	5-0
Anatomy and Physiology 1 .....	3-0		
Mathematics 2 .....	5-0		
Drawing 9, 10, 16 .....	0-2	0-7	0-7
Military Science 3 .....	0-2	0-2	0-2
English 1 .....	6-0	6-0	6-0
History and Civics 1 .....	3-0		
Mathematics 4 .....		5-0	5-0
Geology and Mining 1 .....		0-8	0-8
Mechanical Engineering 1, 2 .....	0-4		

### JUNIOR CLASS.

Drawing 14. ....	0-3	0-3	0-3
Electrical Engineering 1, 2, 3 ..	5-3	5-3	5-3
English 4, 5 .....	5-0	5-0	
Mathematics 7, 9, 10 .....	5-0	5-0	5-0
Mechanical Engineering 12 .....	0-4	0-4	0-4
Mechanical Eng. 15, 16, 17 ..	5-3	5-3	5-3
Military Science 2, 3 .....	0-2	0-2	5-2

### SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Chemistry 1 .....	5-4	5-4	
Drawing 13 .....	0-4	0-4	0-4
Military Science 3 .....	0-2	0-2	0-2
English 2, 3 .....	5-0	5-0	5-0
Mechanical Engineering 7, 10 ..	0-4	0-4	0-4
History and Civics 9 .....			5-0
Mathematics 4, 6 .....	5-0	5-0	5-0
Physics 1 .....	5-4	5-4	5-4

### SENIOR CLASS.

Civil Engineering 1 .....	5-3		
Drawing 17 .....	0-3	0-3	5-3
English 7 .....	0-2	0-2	0-2
Geology 2 .....	5-3		
History and Civics 5, 6 .....		5-0	5-0
Mathematics 11, 13 .....	5-0	5-0	5-0
Mechanical Eng. 19, 20, 21 ..	5-3	5-6	5-6
Mechanical Eng. 13 .....	0-6	0-9	0-9
Military Science 3 .....	0-2	0-2	0-2

# REQUIREMENTS

## For the Degree of Bachelor of Science in Textile Industry.

### FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Anatomy and Physiology 1 ....	3-0		
Drawing 9, 10, 16 .....	0-2	0-8	0-8
English 1 .....	6-0	6-0	6-0
History and Civics 1 .....	3-0		
Mathematics 1, 2, 4 .....	10-0	5-0	10-0
Mechanical Engineering 1, 2 ..	0-4	0-8	0-8
Physiography 1 .....		5-0	
Military Science 3 .....	0-2	0-2	0-2

(See note page 64.)

### SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Chemistry 1, 2 .....	5-4	5-4	2-5
Designing 1 .....	2-0	2-0	2-0
English 2, 3 .....	5-0	5-0	5-0
Mathematics, 4, 6 .....	5-0	5-0	5-0
Mechanical Engineering 9, 11 ..	0-2	0-2	0-4
Physics 1 .....	5-4	5-4	5-4
Weaving 1 .....	0-2	0-2	0-2
Military Science 3 .....	0-2	0-2	0-2

### JUNIOR CLASS.

Designing 2 .....	2-0
Electrical Engineering 8 .....	5-4
English 4, 5 .....	5-0
Mathematics 7 .....	5-0
Textile Chemistry 2, 3, 5 .....	2-5
Weaving 4 .....	1-2
Yarn Manufacture. 1, 2, 4 .....	4-0
Military Science, 1, 2, 3 .....	0-2

### SENIOR CLASS.

Designing 3, 10 .....	4-0
Dyeing 1 .....	2-6
English 7 .....	0-2
Mechanical Engineering 15, 16 ..	5-4
Weaving 11 .....	1-4
Yarn Manufacture 11, 5, 10 .....	4-4
Military Science 3 .....	0-2

# REQUIREMENTS

## For the Degree of Bachelor of Science in Industrial Pedagogy.

### FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
(See note page 64.)			
Agronomy 5 .....		5-2	
Anatomy and Physiology 1 .....	3-0		
Drawing 9, 11 .....	0-2	0-2	
English 1 .....	6-0	6-0	
Geology and Mining 1 .....		5-0	
Gymnasium .....	0-2	0-2	0-2
History and Civics 1, 9 .....	3-0	5-0	
Horticulture 16 .....		5-2	
Mathematics 1, 2 .....	10-0	5-0	5-0
Mechanical Engineering 24, 26 .....	0-4	0-4	0-4
Military Science 3 .....	0-2	0-2	0-2

### SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Botany 4, or Zoology 5 .....			3-4
Chemistry 1, 6 .....		5-4	5-4
English 2, 3 .....	5-0	5-0	5-0
History and Civics 10 .....	5-0		
Mathematics 4, 6 .....	5-0	5-0	5-0
Military Science 3 .....	0-2	0-2	0-2
Physics 4 .....	5-2		
Elective:			
Mech. Eng. 26 .....	0-6	0-6	0-6
or Animal Husbandry 9 .....	3-0		
Dairying 8 .....		3-0	
Agronomy 6 .....			3-0

### JUNIOR CLASS.

English 4, 5, 6 .....	5-0	5-0	5-0
For Lang. 14 and 15 or 18, 19 ..	5-2	5-2	5-2
Industrial Pedagogy 9, 10 .....	5-0	5-0	5-0
Mathematics 21, 8 .....	5-0	5-0	5-2
Military Science 3 .....	0-2	0-2	
Elective:			
Mechanical Eng. 26 .....	0-6	0-6	0-6
or Horticulture 17 .....	3-0		
Agronomy 7 .....		3-0	
Entomology 7 .....			3-0

### SENIOR CLASS.

Botany 6, or Zoology 6 .....	3-4		
English 7 .....	0-2	0-2	0-2
For. Lang. 16, and 17 or 20, 21 ..	5-2	5-2	5-0
Geology and Mineralogy 2 .....			5-2
History and Civics 4, 5, 6 .....	5-0	5-0	5-0
Industrial Pedagogy 11, 12 .....	5-0	5-0	5-0
Mathematics 8 .....	5-0	5-0	5-0
Military Science 3 .....	0-2	0-2	0-2
Elective:			
Mech. Engineering 26 .....	0-6	0-6	0-6
or Animal Husbandry 10, 11 .....	3-0	3-0	
Agronomy 12 .....			3-0

# DEPARTMENTS OF INSTRUCTION.

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## AGRICULTURAL EXTENSION WORK.

Professor LLOYD.

History.—The demand for institute work was the natural outgrowth of the experimental and instruction work which has been carried on at the college by the heads of the departments in the School of Agriculture. For twenty-five years farmers' meetings have been held under the auspices of the college and Experiment Station. Members of the college faculty and experiment station staff have always given considerable time to farmers' institute work, but in recent years the demand for institutes has grown so great that it was deemed best to separate it from the instruction and experimental work of the college and make it a distinct department, bearing the same relation to the college as a whole, as do the other agricultural departments.

There are many agencies at work to awaken the farmer out of his intellectual apathy. The Farmers' Institute is one of these agencies, and has won for itself a permanent place among the several educational influences that are working for a more prosperous agriculture and a richer country life. The institute method of instructing farmers is not new to the educational world. Foreign countries for many years have employed the institute as a means of reaching and helping the people on the farm; and in this country the institute is now recognized as perhaps the most effective agency for disseminating agricultural information.

The growing interest in, and the increased demand for farmers institutes throughout the state caused the legislature to increase the appropriation from time to time so that the calls for institutes could be met. These addi-

ional appropriations increased the efficiency of the department so that, instead of holding all the institutes during the three summer months, as was formerly the case, the work is now distributed throughout the entire year. For the past two years institutes have been held every month. The institute year runs from July 1st to July 1st.

From July 1st, 1909, to Feb. 1st, 1910, there have been held 120 institutes with a total attendance of over 20,000.

**Dairy Extension Work.**—The U. S. Department of Agriculture furnishes the entire time of a dairy expert in co-operation with the Farmers Institute Department. Mr. J. D. Baker, the dairy expert, devotes his whole time to visiting dairymen in the state, showing them how to test their cows, keep records, build silos and barns, how to feed and care for dairy cows, and looks up markets for the dairy products. Last season the department helped many dairymen build barns and silos, by furnishing them building plans and by personal visits to the farm. This season there have been about twenty-five dairymen and farmers who have received help from the department in building barns and silos.

During January three dairy short courses were held; one at Brookhaven, one at Natchez, and one at Jackson. Each of these courses lasted three days. The work was both theoretical and practical. Lantern slides were used to illustrate the several breeds of cattle, silo construction and clean milk, testing milk, making butter and the judging of dairy cows. Several lectures on feeds and forage crops and how to grow and feed them were delivered.

**School Boys' Corn Clubs.**—The institute department has taken an active part in the organization and work of the boys corn clubs. Bulletins, speakers and judges have been furnished free. The boys of the state are taking a lively interest in the corn clubs and are doing splendid work. This movement to interest boys in agriculture has



met with great success and will no doubt be an important factor in bringing about a better system of farming in the state.

**County Agricultural High Schools.**—A week's short course in agriculture was held at the Chickasaw County Agricultural school in November. The results were so satisfactory that arrangements have been made to hold short courses at two more of the schools this spring. These courses consists of plain practical talks on agricultural subjects with practical work accompanying each lecture. The institute department is arranging to hold annually a short course in agriculture at each of the county agricultural high schools and in this way to encourage both teacher and pupil.

**Aims and Objects.**—The purpose of this department is to hold at least one meeting in each county annually. These meetings are to be devoted to the dissemination among the farmers of information which shall aid in teaching better methods of farming, stock raising, horticulture and all the branches of business connected with agriculture and thus make the cultivation of the soil more profitable and rural life more attractive.

**Publications.**—There is at present issued annually one Farmers' Institute Bulletin, containing articles on various agricultural subjects. This phase of the work will be strengthened in the future by publishing short timely circulars containing information on subjects of vital interest to the farmer, and by getting the information to him at the time he needs it most.

#### SHORT SUMMER COURSE IN AGRICULTURE.

**Objects of Course.**—This course is formed with a view to meeting the wants:—

1. Of those who are unable to take the full college course in agriculture.

2. Of those who wish to obtain a knowledge of the best methods of farming and return at once to the active duties of the farm and put into practice what they have learned.

3. Of those who desire the greatest amount of directly useful information in as short a time as possible.

This course will be made so plain and practical that no previous technical education will be needed. It will be of great value to the young man who has just entered the field of agriculture, as well as the older farmer, who has fallen into the proverbial rut.

To successfully meet the sharp competition of the present day, a better knowledge of the science and practice of agriculture is absolutely essential. There are in the state many farmers who cannot spare the time or money for a four years' course in agriculture; the Short Summer Course solves the problem for them.

**Instruction.**—Instruction will be given (1) by lectures, (2) by practical demonstrations, (3) by reference to the latest bulletins and reports from the State Experiment Stations, and from the Department of Agriculture.

The course will include both lectures and practical work on the following subjects: The improvement of soils, the discussion of manures, fertilizer and restorative crops; the method of seed selection with cotton and corn; corn judging; the planting, cultivating, harvesting and marketing of farm products; the testing of milk, and the making of butter; the breeding, feeding and marketing of live stock; the diseases and treatment of farm animals; the production of vegetables and fruit for home use; the economic management of the wood lot; the management of poultry for pleasure and profit; and the grading and classing of cotton. The following courses are offered:

**1. Agronomy.**—A study of soils, fertilizers, field crops and farm management. As much time as possible will be devoted to some

of the most important crops; as corn, cotton, small grain, alfalfa, pastures and foliage. *Lectures and practice, five hours a week.*

2. **Breeds and Breeding.**—The history, characteristics and description of the principal breeds of beef and dairy cattle, sheep, swine and horses. The adaptation of different breeds for special purposes and the care of breeding animals, the principles of breeding.
3. **Feeds and Feeding.**—The principles which underlie successful stock feeding, the compounding of rations for special purposes, stock judging. *Lectures and practice, five hours a week.*
4. **Farm Dairying.**—In this course the student will be given lectures and practical work in the elementary principles of—
  - (1) Selection, care and management of the dairy cow. The importance of selection and management will be shown by a study of the different types of cows, by the use of properly kept records, and by practical work in the barn.
  - (2) Care and handling of milk and its products. Lectures and practical work are given on the secretion of milk, methods of milking, the testing of milk and its products, systems of creaming, ripening the cream, churning and making butter. *Lectures and practice, five hours a week.*
5. **Special Course in Dairying.**—This course is intended especially for those who make a business of producing milk and butter for the market. It will include both lectures and practical work on the following subjects:
  - Breeding and selection of dairy cows;
  - Feed, care and management of dairy cows;
  - Diseases of the dairy cow;
  - Forage crops and pastures;
  - Milk and its products.Only a limited amount of time will be devoted to lectures and theoretical work, but the student will be required to devote a large part of each day to practical and laboratory work.
6. **Cotton Grading.**—The methods of grading and classifying both short and long staple cottons. This work will be all of a practical nature.
7. **Horticulture.**—Lectures will be given on the principles of fruit and vegetable growing, the propagation of plants, pruning, grafting, budding, and spraying. Special attention will be given to the home garden and orchard. *Lectures and practice, five hours a week.*

8. **Forestry.**—Six lectures will be given on methods of handling the farm wood lot, methods of thinning and underplanting natural woods, and on methods of utilizing the waste wood products, and on planting to reclaim gullied and worn lands. Planting plans will be formulated, and the production of fence posts and other classes of woods needed on the farm will be considered.

Six lectures will be given on beautifying the home premises, the care and planting of shade trees, the planning of the farmstead, the selection of shrubs and vines for the lawn, the grouping of decorative plants by the students, and the mapping and laying out of grounds for rural homes and country schools.

*Lectures and practice, five hours a week.*

9. **Economic Entomology.**—This course will include lectures on insect pests of the farm, garden, orchard, and remedies for them. Special attention will be given to the boll weevil and fall army worm, and scale insects. *Lectures and practice, three hours a week.*

10. **Poultry Husbandry.**—The magnitude and importance of the poultry industry, history and characteristics of the breeds, mating and breeding, incubating, brooding and care of small chicks, how and what to feed, insects injurious to poultry, and how to destroy them, contagious and infectious diseases, and the coops, houses, trap-nests, and other fixtures, breeding for utility, fattening and finishing for market, scoring and judging. *Lectures and practice, five hours a week.*

11. **Diseases of Farm Animals.**—The contagious and infectious diseases of farm animals, and their prevention and treatment. *Lectures and practice, four hours a week.*

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## AGRONOMY.

Professor MORGAN.

Associate Professor RICKS.

In this department instruction is given in those subjects pertaining to the production of field crops. This includes soils and fertilizers, farm crops, farm management, and plant breeding as applied to our staple crops. Teaching is done by lectures and text-books, supplemented by practical exercises in the field and laboratory.

2. **Soil Physics.**—This course is intended to familiarize the student with the physical properties of the soil and their relation to its



management and productiveness. Special attention is given to soil formation and classification; the relation of structure and texture to productiveness and the movement of soil moisture. The laboratory exercises are made as practical as possible. *Third term; three hours in class room and two hours in laboratory per week. Required of all Agricultural Sophomores.*

**4. Farm Management.**—This course is intended to teach the student the application of all the principles underlying successful agriculture to the management of the farm. *Third term; three hours per week in class room and two hours per week practical work. Elective for Agricultural Seniors.*

**5. Farm Crops.**—A study of the most important cultivated crops and forage plants. Seed selection, cultivation, improvement of varieties, and corn judging, will be given special attention. *Third term; five hours in class room and two hours in laboratory and field. Required of all Pedagogical Freshmen.*

**13. Farm Crops.**—A more advanced course dealing with the composition, value, and uses of the most important field crops, together with the best methods of soil preparation, planting, cultivation, and marketing. Attention is also given here to methods of crop improvement. *Second term; three hours in class room and two hours in laboratory and field. Required of Agricultural Juniors.*

**6. Agricultural Soils.**—An elementary course designed for pedagogical students who elect agricultural work. The subject will include the origin, formation, classification, and management of soils. *Elective third term; two hours in class room and two hours in laboratory. For Pedagogical Sophomores. Prerequisites: Chemistry 1, and Physics 1, 2 or 3.*

**7. Soil Fertility.**—The influence of fertility, natural or supplied, upon the yield of the various crops; effects of continuous growth of one crop upon soil fertility as compared with diversified cropping. *Second term; two hours in class room and two hours in laboratory. Elective for Pedagogical Juniors. Prerequisite, Agronomy 6.*

**8. Soil Fertility.**—A study of manures, fertilizers, and soils, their composition and agricultural value. Special attention will be given to methods of preventing the loss of soil fertility by leaching and erosion. Crop rotations and green manuring will be studied with regard to their effects upon soil fertility. *First term; four*



hours in class room and four hours in laboratory. Required of Agricultural Juniors.

**Grasses and Forage Crops.**—A course dealing especially with the production, harvesting, and curing of the most important grasses and forage crops. Especial attention is given to the seeding and care of permanent and temporary pastures. *First term; three hours in class room and three hours in laboratory and field. Elective for Agricultural Seniors.*

**4. Plant Breeding.**—A course adapted to the improvement of such field crops as cotton, corn, wheat, oats, the important grasses and legumes. Special attention is given to variation, selection, hybridization, and the isolation of elementary species. *Second term; three hours in class room and two hours in field or laboratory. Elective for Agricultural Seniors.*

**5. Soil Fertility.**—An advanced course dealing with the more recent discoveries along the line of soil productiveness and the use of fertilizers. Intended for students who are especially interested in soil work. *Second term; three hours in class room and two hours in laboratory. Elective for Agricultural Seniors.*

**2. Farm Management.**—(Same as course 4, but is not so complete.) *Third term; three hours in class room. Elective for Pedagogical Seniors. Prerequisites: Agronomy 5, 6, and 7.*

Opportunity is given for advanced students to pursue post graduate work in the Department of Agronomy along any line which meets with the approval of the head of the department.

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## ANATOMY, PHYSIOLOGY AND HYGIENE.

Professor NOEL.

**Anatomy, Physiology and Hygiene.**—The instruction in this department consists of lectures and recitations from regularly assigned lessons. More stress is laid upon physiology and hygiene than upon anatomy. Anatomy, however, is taught in its structure in order that the student may more readily comprehend the functions of the different organs in a state of health, and thus the student can appreciate the real necessity for the proper care and preservation of the body. A well equipped

class room with skeletons, manikins, and charts of the various parts of the body, enables the student to more easily comprehend the subject. *Three hours per week, first term. Required of all students in Freshman Class.*

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## ANIMAL HUSBANDRY.

Professor SMITH.

The courses offered in this department treat, in as direct and practical a way as possible, all subjects which pertain to the judging, selecting, breeding, feeding, improvement, care and management of live stock.

Theoretical instruction is given both from text-books and lectures and practical work in score card and comparative judging.

The department is well equipped with all the prominent breeds of beef and dairy cattle, heavy and light horses and mules, bacon and lard types of hogs and the student is given every opportunity to become proficient in the judging, feeding and management of live stock.

### COURSE OF STUDY.

1. **Sheep and Swine.**—A study of the characteristics and description of the several breeds of sheep and swine; selection and care of breeding animals; a discussion of pastures and forage crops; winter feed and management. *One half term, five hours per week, in class room; two hours per week, judging in live stock room. Required of all Agricultural Sophomores, first term.*
2. **Breeds of Cattle.**—A study of the characteristics and description of the several breeds and market classes of beef, dual purpose and dairy cattle; a discussion of the conditions best adapted for the profitable handling of cattle and methods of improvement. *One half term, five hours per week, in class room; two hours per week, judging in live stock room. Required of all Agricultural Sophomores, first term.*
3. **Animal Nutrition.**—A study of the different feeds and fodders their composition and economic use. Economical methods of feeding live stock. *One term, five hours per week, in class room.*

two hours per week judging in live stock room and at feed barns. Required of all Agricultural Juniors, second term.

4. **Principles of Breeding.**—A study of the principles of breeding, including selection, heredity, variation, fecundity, correlation, in-and-in-breeding, study of pedigrees, methods of improving live stock. *Elective. One term, five hours per week in class room; two hours per week judging in live stock room, for Agricultural Seniors, third term.*
5. **Horses and Mules.**—A study of the different breeds of horses and market classes of horses and mules. Selection, care and management of brood mare and foals. Special attention will be given to the raising of mule colts and the type of mare best suited for that purpose. *Elective. One half term, three hours per week, in class room; two hours per week judging in live stock room. For Agricultural Seniors, first term.*
6. **Advanced Stock Feeding.**—A study of the most successful and economical methods of raising and feeding beef and dairy cattle, hogs, and sheep, production of baby beef. *Elective. One term, five hours per week. For Agricultural Seniors, second term.*
7. **Management of Stock Farms.**—Care and management of horses, mules, beef and dairy cattle, sheep and swine; marketing animals and animal products. *Elective. One half term, three hours per week in class room. For Agricultural Seniors, third term.*
9. **Breeds of Animals.**—A study of the characteristics and description of the several breeds of horses, cattle, sheep and swine and the relation of live stock to successful agriculture. *Elective. One term, three hours per week. For Pedagogical Sophomores, first term.*
10. **Feeds and Feeding.**—A study of the composition and economic use of the principal stock feeds. Feeding and management of farm stock. *Elective. One term, three hours per week. For Pedagogical Seniors, second term.*
11. **Principles of Breeding.**—A study of the principles of breeding, including selection, heredity, and variation, methods of improving animals. Marketing animals and animal products. *Elective. One term, three hours per week. For Pedagogical Seniors, third term.*

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## ASTRONOMY.

See Mathematics.

## BIOLOGY.

See Botany, and Forestry, and Zoology and Entomology.

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## BOOKKEEPING.

See Mathematics.

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## BOTANY AND FORESTRY.

Professor CLOTHIER.

The aim of this department is to ground the student in the fundamental principles governing the life processes of plants. While studying pure science, the student is not permitted to ignore the practical value of a correct interpretation of the behavior of plants. The importance to man of plant industry in every phase is kept constantly in view. The value of our natural plant resources, such as forests, promising wild flowers, nuts and fruits, is never lost sight of. Theory is emphasized by practice.

1. **Agricultural Botany.**—(This was formerly course No. 1 (a) Horticulture).—This course endeavors to give the student an outline of the life history of the plant, from germination to maturity. Stress is laid upon the structure and formation of the fruit, methods of reproduction, and the effects of environment upon the development and economic value of the plant. The underlying principles of plant culture are elucidated in this course. Experiments are utilized to familiarize the student with the activities of plants. *One term, two hours per week in class room, and four hours laboratory practice.* Text-book: Bailey's Elementary Botany. *Required of Agricultural Freshmen the third term.*
2. **Botany (Structural and Systematic)**—(This was formerly course No. 1, Biology).—This course is designed to give a general idea of the gross structure of flowering plants and of the characteristics of the principal groups of phanerogams; a study of the structure of roots and stems, buds, leaves, flowers, and fruits of these plants is made, and, finally, a knowledge of the principal groups is formed by examination of representatives of each type. *One term, two hours per week recitation, and four hours laboratory and field practice.* *Required of Agricultural Sophomores the first term.*

3. **Botany** (*Morphological*).—(This was formerly course No. 2, Biology).—This course deals with the inner morphology and histology of plants from the lower to the highest groups. The cell, in all its variations, from the unicellular groups of fungi and algae, to the complex structures making up the fibrovascular systems of the higher plants, is the unit of investigation. In the latter part of the course special attention is given to harmful forms of fungi and to the means of combatting them. Text-book, Stevens' Introduction to Botany. *One term, two hours a week recitation and four hours a week in the laboratory and field. Required of Agricultural Sophomores, second term.*
4. **Botany** (*Systematic and Morphological*).—This course attempts to give the student an idea of the classification of plants together with their gross structure. A study of the reproductive organs of the phanerogams and vascular cryptogams is made in the laboratory and the practical work is supplemented by the use of the various manuals applicable to Mississippi. In connection with this course the collection and preparation of a herbarium of the plants in this region is obligatory on the student. In the latter part of the course a start in the use of the compound microscope is made. *Three hours per week theory, and four hours laboratory is required. This course is offered to Pedagogical students the third term of the Sophomore year; optional with Zoology.*
5. **Botany** (*Pathological and Physiological*).—(This course in part was formerly course No. 3, Biology).—The first half of this course places special emphasis upon plant diseases and is a continuation of course No. 3. Specimens of fungi which attack our common plants are examined in the laboratory, and studies of their life history made for the purpose of finding means of combatting them. In the latter half of the course the physiological processes of plant life are investigated. The absorption, transportation and assimilation of plant food; respiration and excretion of waste matter; irritability and movement of plant organs are subjects considered. *One term, two hours per week recitation and four hours laboratory practice. Required of Agricultural Sophomores the third term.*
6. **Botany**—(*Plant Histology and Parasitic Plant Diseases*).—This course gives the student an idea of the microscopic structure of plant tissues. It deals with the cell as a unit, and traces its modifications to form the various tissues. In the latter part of the course a study is made of the various types of algae and fungi that are of economic importance.



Parasitic plant diseases are studied and remedies for the same suggested. The laboratory work throughout the course consists of the use of the compound microscope. *Three hours per week theory and four hours laboratory are required. This course is offered to pedagogical students the first term of the Senior year. Course 4 is prerequisite to this course.*

7. **Farm Forestry** (This was formerly course No. 3, Horticulture).—This course is intended to give the student a general idea of the relation of forests to agriculture. The following topics are treated: Influence of forests upon the farm surroundings and upon the soil bearing them; the farm wood-lot, and how to manage it; rotation of forest crops with farm crops; collection and planting of forest seeds and making of forest nurseries; tree planting for timber and for adornment; importance of the forest industries of the State and Nation. *One term, two hours per week in class room and two hours per week in laboratory and field. Required of Agricultural Juniors the first term.*
8. **Botany**—(*Plant Breeding*)—(This was formerly course 6, Horticulture).—The aim of this course is to acquaint the student with the fundamental principles of plant improvement. Definite problems in breeding by crossing, hybridizing and selection are considered. The student is encouraged to submit plans for breeding nurseries, and to suggest practical methods of isolating, testing and roguing new varieties. A study is made of the advantages and disadvantages of seed importation. Collateral reading of the works of Darwin, Bailey, and others, is required as a part of this course. *One term, five hours per week in class room, and two hours per week in laboratory and field practice. Elective in the third term of the Senior year.*
9. **Forestry** (*Silviculture*)—(This was formerly course 5, Horticulture).—The purpose of this course is to teach the student how forests are produced and kept in good condition. The topics treated are the following: The different silvicultural forms of forest management; forest planting; structure of tree seeds and collection and preservation of them; sowing forest seeds in the field, forest, and nursery, and transplanting the young trees; natural regeneration by the judicious use of the axe; protection of the forest against grazing, fire and theft. *One term, five hours per week in class room and four hours in laboratory and field. Elective in the Senior year.*
10. **Forest Policy**.—The following topics are considered in this course: A history of the development of forestry abroad and in North

America; the policy of the different nations in handling their forest resources; the legislation needful in this State and in other parts of the Union for the promotion of rational forest management; study of the question of taxation as it affects the forest industries; points in a good forest fire law; etc. *One term, five hours per week in class room and two hours in library. Elective in the Senior year.*

**11. Botany (Ecology).**—This course is designed to teach the effects of environment upon plant growth. The effects of soil, moisture, heat, altitude, latitude, and plant associations upon the form, structure and usefulness of the individual plant are studied. The distribution of the various plant societies over the earth's surface as a result of ecological factors is investigated. *One term, two hours per week recitations and four hours in field and laboratory. Elective in the Senior year.*

**12. Botany (Plant Pathology).**—This course deals with the subject of plant diseases as caused by parasitic plants. The common fungus and bacterial diseases of our cultivated plants are investigated in the laboratory and methods for combatting same are studied. Emphasis is placed upon the literature dealing with this subject. Bibliographies of selected subjects are prepared from the experiment station bulletins and from the publications of the United States Department of Agriculture. *One term of Bacteriology is prerequisite to this course. Five hours per week recitation and four hours in laboratory and library. Elective in Senior year.*

### ADVANCED WORK IN BOTANY AND FORESTRY.

In addition to the courses outlined above, work leading to the degree of M. Sc., may be taken in the department. The nature and scope of the work will be arranged by special consultation with the applicant.

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## CHEMISTRY.

Professor HAND.

Associate Professor MONTGOMERY.

Mr. SMITH.

**General Arrangement of Courses.**—The courses of undergraduate instruction offered by the Department of Chem-

istry are arranged to meet the special requirements, as far as possible, of students registered in the several Schools.

Those students who choose their major work from the courses maintained by the School of Agriculture, may enter upon a special study of chemistry by electing courses in organic, analytical and applied chemistry. These studies are distributed throughout the sophomore, junior, and senior years.

Elective courses, dealing more specifically with agricultural chemistry, are also available for those who may find them necessary or desirable for a more effective study in special lines of work, as, for example, in agronomy, dairying, entomology, veterinary science, etc.

In addition to the above, the department is prepared to offer more advanced courses leading to the degree of Master of Science for those who wish to continue their special work after graduation.

While a lecture and laboratory course in general inorganic chemistry are requirements for a degree taken in any school, the instruction above this course in this department will appeal more especially:

(a) To those who wish to enter upon careers as teachers of chemistry, or as analytical chemists.

(b) To students who desire some acquaintance with the principles, methods of work, and applications of the science on account of its especial bearing upon their major studies along other lines, as already pointed out.

(c) To those who, after graduation, elect to do at this college work preliminary to a higher college or university degree, or who wish continued systematic training in chemistry, with the view of becoming analytical chemists.

#### OUTLINE OF COURSES.

1. **General Inorganic Chemistry.**—This course is required of all regular students of the sophomore class, irrespective of the school under which they may be classified. The work is arranged for

those who are just beginning the study of chemistry; but, in view of the importance and general use of the principles of elementary physics in presenting the theoretical side, some degree of proficiency in the latter subject is very helpful, and, for the best results, a practical prerequisite. The subject matter of the text-book is carefully explained in daily lectures and recitations, which are illustrated by appropriate experiments performed before the class. Such important subjects as the general nature of solutions, reactions, chemical equilibrium, ionization, hydrolytic disassociation, mass action as influencing equilibrium, solubility product, osmotic pressure, freezing-point and boiling-point methods, etc., receive careful consideration. Text-book: Alexander Smith's *A College Course in Chemistry*. Lectures and recitations. *Two terms, five hours per week. Required of all regular Sophomores.* Dr. MONTGOMERY and Mr. SMITH.

**5. Elementary Experimental Chemistry.**—Laboratory work to accompany course 1. This division of the instruction in general chemistry is designed as elementary training for the beginner in methods of work and of reasoning by which the Science has been built up, and the lecture-room work is supplemented and made clearer, therefore, by this laboratory practice. Text-book: Alexander Smith's *Laboratory Outline of General Inorganic Chemistry*. *Four hours per week first term and five hours second term. Required of all regular Sophomores.* Dr. MONTGOMERY and Mr. SMITH.

**2. Organic Chemistry.**—This is a short introductory course for students electing work in the School of Agriculture. The limited time necessitates a restriction of the work most largely to the aliphatic bodies which are of more immediate importance from the view-point of the student of agriculture. The course involves the usual discussion of the course, classification, properties, and important general syntheses of organic compounds. The alcohols, aldehydes, ethers, esters, vegetable acids, vegetable oils and animal fats, sugars, starch, cellulose, etc., receives careful attention. Text-book: Remsen's *Introduction to the Study of Carbon Compounds*. Lectures, recitations and laboratory practice. *Nine hours per week, third term. Required of all Juniors in the School of Agriculture.*

Professor HAND, Dr. MONTGOMERY and Mr. SMITH.

**11. Qualitative Analysis.**—An introductory course. Chiefly laboratory work. The lectures deal with the chemistry of reactions, laws of chemical equilibrium, of solution, etc. The work of this



course may be regarded also advanced general chemistry. Lectures, recitations, and laboratory work, *five hours a week for one term. Required of all Juniors in School of Agriculture. Courses 1 and 5 are prerequisites.* Dr. MONTGOMERY and Mr. SMITH.

3. **Agricultural Chemistry.**—The work embraced in this course involves a discussion of the application of the principles of chemistry to agriculture. Courses 1, 2 and 5 are prerequisites. The following subjects, which receive attention in some detail, will give a general idea of the plan and scope of the work undertaken. Composition, classification, properties and formation of the organic compounds of plants, the inorganic parts of plants, composition of the atmosphere and its relation to plant growth, the chemistry and manufactures of commercial fertilizers, and farm manures, the function and conservation of humus, general conservation of fertility, involving a careful study of the chemical composition of soils and general soil chemistry. Lectures and recitations. Reference books: Johnson's *How Crops Grow* and *How Crops Feed*, Johnson and Cameron's *Elements of Agricultural Chemistry*, Storer's *Agriculture in Some of Its Relations with Chemistry*, Journals, and reports and bulletins of the Experiment Stations and Bureaus of the U. S. Department of Agriculture. *Five hours per week, first term. Required of all Seniors in School of Agriculture.* Professor HAND.

4. **Agricultural Analysis.**—This course in analytical work supplements the instruction in agricultural chemistry, and the two courses are pursued at the same time. It is introduced by a short course in qualitative analysis during the third term of the Junior year. Following this, some practice in the more common quantitative determinations (students employing pure salts or analyzed samples) is required. The work is practically confined to the analysis of soils, fertilizers, and feeding stuffs. Lectures, recitations, and laboratory work. Courses 1, 3 and 5 are prerequisite. *Four hours per week, third term Junior, and six hours first term, Senior. Required of all Juniors and Seniors in School of Agriculture.*

Professor HAND, Dr. MONTGOMERY and Mr. SMITH.

6. **Agricultural Analysis.**—A continuation of course 4. Involves an additional and more careful study of the foundations of analytical chemistry, and of special methods as applied to examination of soils, fertilizers, and agricultural products.

Students taking their major work in agronomy may confine their studies more especially to soil chemistry, while those taking



special courses in dairying may devote this time to dairy chemistry and the general examination of dairy products. Reference books: Wiley's Principles and Practice of Agricultural Analysis, Official Methods of the Association of Agricultural Chemists, Richmond's Dairy Chemistry, Sherman's Organic Analysis, Miller's Calculations of Analytical Chemistry. *Lectures, three hours a week, and laboratory work, at least ten hours a week second term Senior year. Elective for all students in School of Agriculture.*

Professor HAND.

7. **Industrial Chemistry.**—A discussion of the chemistry of industrial products, including fuels, water, petroleum products, pottery, glass, cements, mortars, alcohol, animal fats, vegetable oils, soap, glycerine, sulphuric acid, important heavy chemicals, etc. Text-book: Thorp's Outlines of Industrial Chemistry. *Five hours per week, third term, Senior year. Elective for students in School of Agriculture.*

Professor HAND.

8. **Organic Chemistry.**—Follows course 2. Time devoted most largely to carbocyclic compounds with special reference to those industrial organic syntheses of importance, e. g., alizarin, indigo, and dyes in general, drugs, flavors, and bodies prepared from derivatives of coal tar. Text-books: Remsen's Chemistry of the Carbon Compounds. *Five hours per week, first term Senior year. Elective for students in School of Agriculture.*

Professor HAND.

9. **Organic Preparations.**—Laboratory study of organic chemistry, involving preparation and purification of important types of organic compounds and a general laboratory study of the subject. These compounds are to be obtained in satisfactory yield and in a state of purity. Course must be taken in connection with course 8. Reference books: Levy's Bistrzycki Organische Preparate, Cohen's Organic Chemistry for Advanced Students, and also other well known manuals, Gattermann's Practical methods of Organic Chemistry. *At least six hours per week first term Senior year. Elective for students in School of Agriculture.*

Professor HAND and Mr. SMITH.

10. **Analytical Chemistry.**—A study of the methods, theories and calculations of analytical chemistry, with lectures and references upon topics in physical chemistry. Discussion of desirability of methods in special analytical work. Includes also an introduction to electro-analysis. Text and reference books: Treadwell's Analytical Chemistry, Vol. II, Morse's Exercises in Quan-

titative Chemistry, Ostwald's Scientific Foundations of Analytical Chemistry, Miller's Calculations of Analytical Chemistry, Lung's Technical Methods of Chemical Analysis. Lectures and recitations, five hours per week first, second and third terms Senior year laboratory work to consume as much time as the student finds available, but not less than six hours per week, first term; ten the second term; and eight the third term. When the elective time will permit, the laboratory work in Analytical Chemistry will be extended throughout the third term Senior year also. Elective for Seniors in School of Agriculture.

Professor HAND and Mr. SMITH

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**Summer Courses.**—While no regular summer courses in chemistry have been established by the faculty, the laboratories are open throughout the year, and the students who may wish to extend their regular course or to do special work during the vacation, are allowed to do so at no extra expense. Students looking forward to careers as physicians or pharmacists, or who wish to prepare themselves for business in which a knowledge of chemistry is important, may find it desirable to take advantage of the facilities offered by the department.

**Advanced Work in Chemistry.**—In addition to the undergraduate course of instruction outlined above, the Department of Chemistry offers also to graduate students courses in analytical, agricultural and organic chemistry as major and minor for the M. Sc. degree. The general nature and scope of the work is arranged by special agreement. In past years those who have taken advantage of the facilities here for the serious study of chemistry have been quite successful, and the work is now designed mainly for two classes of students:

(1) Those who wish to enter as soon as possible upon professional university courses with a view to becoming candidates for the higher degrees. The advantages which the department can offer for this preparatory work are desirable.

(2) Those who wish to secure accurate training in analytical chemistry with the immediate view to securing positions as analytical chemists.

No time limit is set for the completion of the requirements, though two years of laboratory practice are usually necessary.

**Library.**—The Library of the department of chemistry contains standard reference books relating to the various branches of pure and applied chemistry and complete sets of a number of journals. The American, and the more important English, German, and French journals are received regularly. The bulletins of the various experiment stations, and the publications of the several bureaus of the Department of Agriculture are also available.

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## CIVIL ENGINEERING AND DRAWING.

Professor BROWN.

Mr. FREEMAN.

Mr. MONCRIEF.

### CIVIL ENGINEERING.

**Land and Engineering Surveying.**—This course is designed to provide instruction in the ordinary methods of land and engineering surveying. The subjects treated in the class room are, description and adjustment of surveying and engineering field instruments; field methods of land surveying, determination of error of closure, balancing the surveys, computation of areas and plotting from field notes; differential and profile leveling, heights and distances by stadia measurements, determination of the true meridian by pole star, and solar methods, and thence the magnetic declination. Abundant field practice is afforded in the operations studied in the class room, actual work along all these lines being carried on as a necessary part of the course. In the practical work of this course is included a large amount of work on the drawing board. Text-book: Breed and Hosmer's Principles and Practice of Surveying. *Five hours in the class room and six hours practical work per week, first term. Required*

*of all Civil Engineering Juniors, Mechanical and Electrical Engineering Seniors.*

Professor BROWN

- 3. Elementary Roof and Bridge Design.**—In the class room the more common forms of roof and bridge trusses are studied and complete analyses of stresses due to truss weight and applied loads are worked out, both analytical and graphical methods of solution being employed. Questions of design are studied as thoroughly as the time permits. A large portion of this course is given in the drawing room, where free use of the drawing board is made in the solution of actual problems of stress and design. Text-book: Malcolm's Graphic Statics. *Five hours in class room and six hours practical work per week second and third terms Required of all Civil Engineering Juniors.* Professor BROWN

- 4. City and Mine Surveying.**—This is a continuation of the work of the first term, junior year. It embraces a study of the more refined and delicate methods of measurement with application to city, topographic, and mine surveying. The course is made as practical as possible by the introduction and solution of actual problems. Text-book: Breed and Hosmer's Principles and Practice of Practical Surveying. *Five hours in the class room and six hours practical work per week first term. Required of all Civil Engineering Seniors.* Professor BROWN

- 5-6. Railway Construction.**—This course is designed to give thorough training in the field methods of railway surveying, and a general knowledge of construction and operation. In the class room the subjects of alignment, earth work, costs of construction and expenses of maintenance and operation are studied. Each class is required to make a survey and all necessary maps and charts for a short line of railway. Text-book: Webb's Railroad Construction. *Five hours in class room and six hours practical work per week second term. Required of all Civil Engineering Seniors.* Professor BROWN

- 20. Highway Engineering.**—This course is designed to give a thorough knowledge of the construction and maintenance of earth and stone roads, and the various street pavements. Special stress will be laid on the subject of construction and drainage of earth roads, this phase of the subject being taught as much as possible from the knowledge gained by actual experiments in Mississippi and other States. Text-book: Spalding's "Roads and Pavements." *Required of Civil Engineering Seniors. Five hours per week, third term.* Professor BROWN.



**Masonry Construction.**—The object of this course is to give the student as thorough a knowledge as possible of the requisites for good materials for masonry structures; to give a knowledge of the economical design of bridge piers and abutments, culverts, masonry dams, and retaining walls, special emphasis being put on methods of securing foundations for these structures. Text-book: Baker's "Masonry Construction." *Required of all Civil Engineer Juniors. Five hours per week, third term.*

Professor BROWN.

**Sanitary Engineering.**—The object of this course is to give the student a knowledge of the economical design, construction and maintenance of sewer systems for towns and to give a knowledge of the sanitary disposal of sewerage by treatment. Text-book: Ogden's Sewer Design. *Required of Civil Engineering Seniors. Five hours per week, third term.*

Professor BROWN.

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## DRAWING.

**Free-Hand Drawing.**—This is an elementary course, having as its objects the training of the eye to see correctly and to observe closely, and of the hand in easy and precise manipulation. The work consists of drawing straight lines and curves, outlines of objects from the black board, object drawing in outline, and perspection and shading. *Two hours per week, first term. Required of all Freshmen.*

Mr. FREEMAN.

**Mechanical Sketching**—A continuation of course 9, special practice being afforded in sketching from simple machines, or parts of machines, and in free-hand lettering. *Seven hours per week, second term. Required of all Engineering and Textile Freshmen.*

Mr. FREEMAN.

**Mechanical Drawing.**—Use of drawing instruments, geometrical constructions, orthographic projections of parts of machines, U. S. standard bolts, etc., etc. Free-hand lettering. Text-book: Anthony—Mechanical Drawing. *Seven hours per week, third term. Required of all Engineering and Textile Freshmen.*

Mr. FREEMAN.

**Mechanical Drawing.**—Freehand lettering; sketching from machine parts. Working drawings of objects to be made in manual training course in wood work. *Two hours per week, second and third terms. Required of all Industrial Pedagogy Freshmen.*

Mr. FREEMAN.



**13. Descriptive Geometry.**—Elementary instruction with special consideration of the needs of mechanical draftsmen. The course is intended to give thorough training in those portions of the subject which constitute the foundation of drawing. Text-book: Moyer—Descriptive Geometry. *Four hours per week, three terms. Required of all Engineering Sophomores.* Mr. FREEMAN

**14. Machine Drawing.**—Sketches and working drawings from machine parts, shop drawings of engine parts detailed from assembly drawings, general instruction in dimensioning and drawing specifications. Text-book: Low & Bevis—Machine Drawing and Design. *Three hours per week, three terms. Required of all Electrical and Mechanical Engineering Juniors.*

Professor BROWN and Mr. MONCRIEF

**17. Machine Design.**—Design and drafting of fastenings, journal and shafting, bearings, belt gearing and toothed gearing, etc. Text-book: Low & Bevis—Machine Drawing and Design. *Three hours per week for three terms. Required of all Electrical and Mechanical Seniors.* Professor BROWN and Mr. MONCRIEF

**Students' Drawing Outfit.**—All engineering students are advised to provide themselves with the following drawing instruments and materials:

- 1 Nine-piece set of Drawing Instruments in case.
- 1 Pearwood T-square, 18".
- 1 Pair Celluloid Triangles—6"-45°; 8"-30°x60°.
- 1 12" Boxwood Scale; Triangular Boxwood Scale.
- 1 Irregular Celluloid Curve.
- 1 5" Celluloid Protractor.
- 1 Koh-i-Noor Pencil, 4H.
- 1 Pen Holder and half dozen Assorted Pens.
- 1 3-4 oz. Bottle Black Drawing Ink.
- 1 Towers' "Multiplex" Eraser, 1-20 lb.
- 1 Tack Lifter and File.

**Equipment.**—The department of civil engineering is well equipped for all kinds of field work; the instrumental outfit consisting of 2 engineer's transits with solar attachment, 1 plain engineers' transit, 1 light mountain and mining transit, 1 theodolite, 3 wye levels, 1 dumpy level, 1 builders level, 1 Locke hand level, 2 vernier compasses, 1 pocket

compass, 1 plane table, 1 stadia rod, leveling rods, range poles, chains, tapes, etc.

The two drawing rooms are large and well lighted and furnished with suitable desks and secure lockers. Each student is furnished with a locker in which his drawing instruments may be left with perfect safety. The instructor's desk is supplied with a great variety of drawing instruments, not included in the student's outfit, and these are for students' use, as occasion may demand. A modern and complete blue-printing outfit forms a part of the equipment.

**Library.**—The department library contains many standard works along all lines included in the courses of instruction outlined above, and this collection is constantly being added to. These books are for students' use for reference at all times.

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## CIVIL GOVERNMENT.

See History and Civics.

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## CLINICS.

See Veterinary Science.

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## COTTON GRADING.

Professor MEADOWS.

This department of instruction has been established in compliance with a special act of the legislature making the necessary appropriation for maintenance.

The courses offered have the direct object in view of teaching the student the grade, color, length of staple and character of cotton.

The instruction given consists of a few lectures at the beginning of the course and much actual experience in handling and judging cotton.

1. **Cotton Grading.**—A practical course intended to teach the student the grade and value of cotton. No college credit is given for this course. *First term, ten hours per week, repeated second and third terms. Open to all who may elect the work.*
  2. **Cotton Grading.**—Same as course 1, except that as much as *twenty hours per week may be devoted to the work. Given during the Summer School.*
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## DAIRY HUSBANDRY.

Professor MOORE.

It is the purpose of this department to give such instruction to the students taking the courses offered as will be most helpful in preparing them for their life work. Instruction is given by the use of systematic lectures, suitable text-books, and apt experiments. Practical work is given in the farm dairy, in the creamery, and in the dairy barns.

2. **Milk and Its Products.**—This course deals with the composition of milk, butter, and cheese; the use of the Babcock test; the different methods of handling milk; methods of creaming; the proper conditions for ripening and churning cream; and the making of butter. *Four hours a week recitation and two hours a week practical, first term. Required of Agricultural Sophomores.*
4. **Testing Milk and Its Products.**—This is a continuation of course 2, and treats of the different methods of testing milk, cream, butter, and cheese; methods of detecting adulteration of milk; fermentation tests; determination of acidity in milk; and methods of pasteurization and sterilization. *Four hours a week recitation, and four hours a week practical, second term. Required of Agricultural Juniors.*
5. **Milk Production.**—A study of individual animals, showing the relation of the cow and the herd to the profits derived from milk production; the requirements necessary for the establishment and maintenance of a dairy herd of the highest efficiency. A comparison of different rations for economical milk production; the influence of home-grown feeds on the economy of the ration; organization of a dairy farm and a study of the production and disposal of the milk at the greatest possible profit. *The equiva-*

*lent of six theoretical hours per week, first term. Elective for Agricultural Seniors and others prepared to take the work.*

6. **Butter and Cheese Making.**—Principles and practice of creamery butter making, pasteurization of cream for butter making; propagation of starters; cream ripening; churning, washing, salting, working, packing, and marketing butter; composition and score of butter; defects of butter; moisture tests; calculation of over-run. The latter part of the term will be devoted to the manufacture of cheese; practice in ripening and setting the milk; cooking, cheddaring, milling, and salting the curds; and pressing, curing, and scoring the cheese. *The equivalent of six theoretical hours per week, second term. Elective for Agricultural Seniors, and others prepared to take the work.*
7. **Advanced Dairying.**—Methods of handling milk and cream for consumption, standardizing, modifying, and bottling. Ice cream making. Federal and State laws and milk inspection. The study of climate, soils, and market conditions on the development of special lines of dairying. A study of the experiment station literature. Prerequisite: Dairy Husbandry 2, 4, 5. *The equivalent of six theoretical hours per week, third term. Elective for Agricultural Seniors, and others prepared to take the work.*
8. **Milk.**—The secretion, character, and composition of milk; methods of creaming; farm butter making; practice in testing with the Babcock test; the lactometer and acid tests; tests for the purity of milk and its adulteration. *The equivalent of three theoretical hours per week, second term. Required of Pedagogical Sophomores who elect Agricultural subjects.*

**Graduate Course.**—In addition to the undergraduate course of instruction, outlined above, the dairy department offers to graduate students of this and other colleges opportunities for professional training and original investigation. The special line of study will be left largely to the selection of the student, subject to the approval of the faculty. Such students will take part in the experiments in progress, and, after sufficient experience, will conduct independent investigations. For the completion of this course the student will be required to pursue an

approved course of study equivalent to the work of one year of graduate study.

**Equipment.**—The new dairy building and dairy barn are models of their kind, and will compare favorably with such buildings found anywhere in the South. The dairy building is equipped with the most modern and improved machinery necessary for successful dairy and creamery work, including the leading makes of testers, separators, churns, butter workers, pasteurizers, and other machinery.

In the barn we have representatives of the Jersey, Holstein-Friesian, and Red Poll breeds of cattle. There are also about seventy-five head of grade and common cows that are used to illustrate the theories taught in the classroom regarding the selection, breeding, feeding, and handling of dairy animals.

**Short Course in Farm Dairying.**—This course is intended for the dairy farmers of Mississippi who feel the need of practical instruction that will aid them in their operations on the farm and in handling the dairy products to the best advantage; and for those young men who feel that they are not able to undertake a college education, but yet desire to increase their earning capacity, and to better fit themselves for the duties and responsibilities of life. For full information concerning this course, write for the bulletin on "The Short Course in Farm Dairying."

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## DESIGNING.

Mr. HAMBLEY.

1. **Weave Construction and Fabric Structure.**—This course gives an introduction to yarn calculations and such elementary designing as will be required to make specifications for the fabrics to be produced in Weaving, 1. It is concomitant with Weaving 1. *Two hours a week, through the year. Required of all Textile Sophomores.*



2. **Weave Construction.**—A continuation of 1. The various styles of weaves derived from so-called "foundation weaves" are studied. *Two hours a week, through the year. Required of all Textile Juniors.*
3. **Weave Construction.**—A course involving the study of fancy ground weaves, piques, lenos, varieties of double cloths, Jacquards, etc. The study of designing from a commercial standpoint is emphasized. *Two hours a week, through the year. Required of all Textile Seniors.*
4. **Weave Construction.**—This course includes 1 and a part of 2. On account of the greater allotment of time more ground is covered. *Four hours a week, through the year. Required of all Textile Junior Specials.*
5. **Weave Construction.**—Includes the work done in 3, and a study of weaves more intricate than any in the preceding courses. The harmonious arrangement of color is dwelt upon as an important factor in marketing goods. *Four hours a week, through the year. Required of all Textile Senior Specials.*
10. **Fabric Analysis.**—In this course the students receive instruction on the calculations needed to determine the size and kind of yarn in a given piece of cloth, applying the rules to actual samples. Samples are examined for the determination of every point of construction. *Two hours a week, through the year. Required of all Textile Seniors.*
3. **Fabric Analysis.**—This course is similar to, but more comprehensive than 10. *Two hours a week, through the year. Required of all Textile Junior Specials.*
6. **Jacquard Design.**—Explanation of different parts of the Jacquard machine. Drawings to illustrate the simpler forms of tie-ups. The laying out of designs on squared paper. Making a design suitable for different textures and tie-ups. The application of weaves to give effects desired. Card cutting and lacing. *Two hours a week through the year. Required of all Senior Specials.*

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## DRAINING AND TERRACING.

See Rural Engineering.

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## DRAWING.

See Civil Engineering and Drawing.

## DYEING.

See Textile Chemistry and Dyeing.

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## ELECTRICAL ENGINEERING.

See Physics and Electrical Engineering.

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## ENGLISH.

Professor MAGRUDER.

Associate Professor WEDDELL.

Assistant Professor DARNALL.

Mr. MELLEN.

Mr. LOVE.

Mr. MULLINS.

The object of this department is to give the student a practical knowledge of English composition and of literature, and, along with such knowledge, the liberal culture that must follow a close study of these subjects. To this end it proposes:

a. To give such facility in English composition, both written and oral, as the natural ability of the student makes possible.

b. To give a general knowledge of the kinship of English to other languages.

c. To teach the canons of literary criticism deduced from the study of the world's best books.

d. To give as full a knowledge of literature and the history of literature as can be acquired in the very limited time allotted to this study.

To accomplish the four purposes outlined above, the following courses are announced:

1. **Elementary Rhetoric.**—It is proposed in this course to give such instruction in the elementary principles of composition as will enable the student to express himself with some ease and skill in both oral and written discourse. The class room instruction

is largely theoretical, while for practice short weekly themes (and occasional longer themes) are required of each student during the entire course. *Three hours a week, entire session.*

*Collateral Reading.*—Two hours a week are devoted to the critical discussion in class of such English Classics as are best adapted to the mental attainments and literary training of the student at this stage of his advancement. *Two hours a week, entire session.*

*Conferences.*—On written work conferences are held with the most backward students, and in these conferences not only are literary errors pointed out and corrected, but the student is encouraged, advised, admonished, rebuked, or censured as the individual case requires. *One hour a week, entire session. Required of all regular Freshmen.*

MR. MELLE, Mr. LOVE, and Mr. MULLINS.

2. **Advanced Rhetoric.**—The four standard forms of discourse (description, narration, exposition, and argumentation) are theoretically discussed, and the presentation before the class of practice work in each form is a part of the daily recitation routine of the lecture room. Every student submits one theme each half-term on assigned subjects. Collateral reading is assigned by the instructor. Daily conferences are held, when practicable, with individual students during the entire session. *Five hours a week, first and second terms. Required of all regular Sophomores; offered to all students prepared to take the work.*

Professors MAGRUDER and DARNALL.

3. **Literary Criticism.**—This study takes up the nomenclature of literary art and the canons of criticism as announced by Arnold, Saintsbury, Trent, and Mabie. Written reviews of the books assigned for collateral reading will constitute a part of the practice work of this course. *Five hours a week, third term. Required of all regular Sophomores; offered to all students prepared to take the work.*

Professors MAGRUDER and DARNALL.

4. **History<sup>of</sup> Foreign Literatures.**—The aim of this course is to give the student some idea of the chief literary epochs and the greatest writers of the principal foreign nations (other than British) throughout history. Instruction is by text-book, by lecture, and by reading (in class) selections from some of these authors. Every student submits one essay each half term on a subject connected with his work. Collateral reading is assigned by the

instructor. *Five hours a week, one term. Required of all regular Juniors. Offered to all students prepared to take the work.*

Associate Professor WEDDELL.

5. **History of British and American Literatures.**—The aim of this course is to acquaint the student with the chief epochs in these literatures and with the characteristics of the greatest writers. The instruction is by text-book, lecture, and by reading (in class) selections from some of these authors. Every student submits one theme each half term on a subject connected with his work. Collateral reading is assigned by the instructor. *Five hours a week, one term. Required of all regular Juniors. Offered to all students prepared to take the work.*

Associate Professor WEDDELL.

6. **British and American Classics.**—The purpose of this course is to give pedagogical students (and other that desire it) a broader look-out upon their own literature; to teach such students how to impart their knowledge of literature to others, and how to cultivate in pupils a love of books. Instruction is given by lecture and text-book, and by reading (in class) selections from the best English authors of both early and late epochs. Every student is required to submit a written report on certain classics assigned for reading and study. *Five hours a week, one term. Required of all Pedagogical Juniors; offered to all students prepared to take the work.*

Associate Professor WEDDELL.

7. **Masterpieces.**—The aim of this course is to familiarize students with choice specimens of the essay, the short story, and the narrative poem. To this end the class is required to read thoughtfully the works under discussion, and to submit such written reports as the head of the department shall suggest. Supplementary readings are given in class by the instructor, occasionally assisted by students. *Two hours a week, for three terms. Required of all regular Seniors; offered to all students prepared to take the work.*

Associate Professor WEDDELL.

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## ENTOMOLOGY.

See Zoology.

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## FABRIC ANALYSIS.

See Designing.

## FOREIGN LANGUAGES.

Professor BOWEN.

Mr. PHILLIPS.

The aim of this department is to teach the French and German languages in such a way that they may be made of practical value to the student, after he leaves college, enabling him to make use of the wealth of information in these languages which is not available in English. This ability is of prime importance to every one who wishes to be thoroughly grounded in the sciences taught at this institution.

In addition to this, the cultural value of the studies is stressed. Much oral work is done, and a correct pronunciation is insisted upon. As noted below, special courses are devoted to this, and to sight reading. The department is provided with maps, and a set of Hoelzel pictures, for use as a basis of conversation. The texts read are changed each year.

A one-year course in Agricultural German is now offered, which will be of incalculable benefit to all those who expect to become trained agriculturists, chemists, botanists, etc. This course has been worked out with especial care, and places this college in line with the other A. & M. colleges in this respect. It may be elected by agricultural seniors in the regular course and by any others as a special subject. Those candidates for the Master's degree who have had no German will find this class of great assistance to them. Students who wish to elect it should consult the head of this department.

No graduate work is offered in this department.

The courses below are offered in 1910-11, and are open to all students in the college, subject to the consent of the head of the department. They will be given as outlined, except that the classes may be re-assigned according to the exigencies of the recitation schedule.



14. **Elementary French.**—This is a culture course, leading to the reading of the best literature, and is taken in connection with course 15, which supplements it. The essentials of grammar are stressed, and reading is begun early. *Five hours per week, for three terms. For Pedagogical Juniors.*

Mr. PHILLIPS or Professor BOWEN.

15. **Elementary French, Practical.**—This course must be taken in connection with course 14. No outside preparation is required. The time will be devoted to pronunciation, which is stressed; to sight reading; to composition, oral and written; and to conversation. If necessary, the class will be divided so as to give each student individual attention. *Two hours per week, for three terms. For Pedagogical Juniors.*

Professor BOWEN and Mr. PHILLIPS.

16. **Advanced French.**—A continuation of course 14. The best prose and verse will be read, including some selections from the classic drama, and the history of the literature will be studied briefly. *Five hours per week, for three terms. For Pedagogical Seniors.*

Professor BOWEN.

17. **Advanced French, Practical.**—Required with course 16. The same general plan as in course 15 will be followed, more attention being paid to rapid reading at sight. *Two hours per week, for two terms. For Pedagogical Seniors.*

Professor BOWEN.

18. **Elementary German.**—This is a culture course leading to the reading of the best literature, and course 19 must be taken in connection with it. The essentials of grammar are stressed, and reading is begun early in the course. *Five hours per week, for three terms. For Pedagogical Juniors.*

Mr. PHILLIPS.

19. **Elementary German, Practical.**—This course is required with course 18. No outside preparation is required. The time will be devoted to pronunciation, which is stressed; to sight reading; to composition, oral and written; and to conversation. Individual attention will be given each student, and, if necessary, the class will be divided. *Two hours per week, for three terms. For Pedagogical Juniors.*

Mr. PHILLIPS and Professor BOWEN.

20. **Advanced German.**—A continuation of course 18. The best prose and verse will be read, including some of the classic dramas, and time will be given to a brief sketch of the literature. *Five hours per week, for three terms. For Pedagogical Seniors.*

Professor BOWEN.

1. **Advanced German, Practical.**—Required with course 20. The same general plan as in course 19 will be followed. *Two hours per week, for two terms. For Pedagogical Seniors.*

Professor BOWEN.

5. **Agricultural German.**—This course aims at giving knowledge of the grammar sufficient to read easy scientific German. The reading of these texts will be taken up as early in the course as possible. *Five hours per week, for three terms. For Agricultural Seniors who may elect this course.*

Professor BOWEN or Mr. PHILLIPS.

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## FORGE WORK.

See Mechanical Engineering.

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## FOUNDRY WORK.

See Mechanical Engineering.

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## FRENCH.

See Foreign Languages.

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## GEOLOGY AND MINING ENGINEERING.

Professor LOGAN.

Associate Professor RICKS.

1. **Physiography.**—This course is intended to constitute an introduction to the physical sciences. It treats of the earth in its planetary relationships; of the atmosphere, its composition, temperature, and moisture conditions; of climate, rainfall, winds and weather; of the oceans, their tides and currents, work and effect upon climatic conditions; of the land masses and their divisions; of topographic features, mountains, volcanoes, plateaus, plains, and lake basins; of the phenomena of geysers, hot springs, glaciers, and underground waters; of the distribution of plants, animals and man. *Five hours per week for one term. Required of all Freshmen.* Professor RICKS assisted by Professor CLOTHIER.

2. **General Geology.**—A study of the elementary principles of geology including a study of constructive and destructive forces and their results; the origin and structure of the surface features of the earth; the composition, origin, and mode of occurrence of

the various kinds of rock; the divisions of geological time; the rocks, life, and principal economic products of each geological period. *Five hours per week for one term. Required of Senior in Agriculture, Mechanical Engineering, and Pedagogy.*

Professor LOGAN

3. **Elementary Geology.**—A brief course intended as an introduction to the science, and comprising much of the work of the foregoing course. *Five hours per week for two terms. Required of Junior in Civil and Mining Engineering.*

Professor LOGAN

4. **Economic Geology.**—A study, from a practical and scientific standpoint, of the chief economic products of the different geological formations. The course embraces a study of the nature, origin, quantity, mode of occurrence, geologic and geographic distribution of such products as:—coal, gas, oil, precious minerals, cements, marls, and building stones; special attention being directed to the important mineral products of Mississippi. *Five hours per week for one term. Required of Seniors in Civil and Mining Engineering.*

Professor LOGAN

5. **Dynamical Geology.**—A brief course embracing the elementary principle of dynamic geology; designed to give a more comprehensive view of the forces producing land sculpture, such topographic forms as hills, mountains, lake basins, and the various phenomena connected with the gross structure of rocks, such as folds, faults, joints, and fissures; the movements of the rocks of the earth; also the phenomena of extrusive and intrusive matter. *One term, five hours per week. Required of Seniors in Civil and Mining Engineering.*

Professor LOGAN.

6. **Meteorology and Climatology.**—A study of all atmospheric phenomena bearing upon weather and climate; comprising a consideration of the air, its properties and functions; its weight, pressure, density, temperature, moisture, evaporation, humidity, condensation; clouds, frost, rain, hail, dew, snow; measurement of precipitation; convection; relation of pressure to winds; insolation; isotherms; isobars; effects of winds, currents, and topography on climate; range of temperature; temperate zones; distribution of pressure and winds; relation of temperature and pressure; relation of pressure and winds; trades, and anti-trades; monsoons, cyclones and anti-cyclones; hurricanes; typhoons; tornadoes; warm and cold waves; blizzards; rainfalls; laws of distribution; weather and climate; meteorological instruments; construction of weather maps. *Open to special students.*

Professor LOGAN.

7. **Mineralogy.**—A brief course in crystallography, including a study of the different properties of crystallization; the important optical properties of minerals; the crystal form, studied by the means of diagrams, models, and crystals; followed by a study of the more common metalliferous and silicate minerals, and the methods of their determination. *Five hours per week for two terms. Required of Seniors in Civil and Mining Engineering.* Professor LOGAN.
8. **Mining.**—A study of the nature and origin of metalliferous deposits and other valuable mining materials; the development and exploitation of mining properties; extraction; machinery, and methods of drainage of mines; mining systems; methods of excavation; machinery, tools and explosives; mine supports. *Five hours per week for two terms. Required of Seniors in Civil and Mining Engineering.* Professor LOGAN.

The equipment of this department consists of a lecture room; a dark room for the use of the lantern; a laboratory equipped with suitable apparatus for the study of mineralogy; a museum containing a collection of rocks, minerals, and other illustrative material; a combination reflectoscope and stereopticon with several hundred lantern slides, photographs and other illustrations on the subjects of geology, physiography, and mining; and also much miscellaneous illustrative material in the way of maps, charts, and models.

The college library contains all of the reports, monographs, and bulletins of the U. S. G. S.; many of the reports of the state surveys, and other reference books of use in the department.

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## GERMAN.

See Foreign Languages.

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## HISTORY AND CIVICS.

Professor HERBERT.

Mr. GARNER.

It is the purpose of the Department of History and Civics, (a) to give the students some insight into the great historic movements of the world, (b) to give them some

acquaintance with the method of historical study, (c) to give them such a knowledge of American history, governmental institutions, and economics as will enable them to understand and appreciate the privileges and duties of citizens. In order to carry out this three-fold purpose liberal use of the college library is required, and the following courses are offered:

## HISTORY.

1. **English History.**—This course is a general treatment of the whole field of English history, with stress laid upon the leading facts and upon the growth of British institutions as a foundation for the study of American institutions. The text-book in use is Montgomery's *Leading Facts of English History*. *Three hours per week, first term. Required of all Freshmen.*

Professor HERBERT and Mr. GARNER.

2. Given in History 7, 8, 9, and 10.

3. Discontinued.

4. **American History from 1761 to 1861.**—The work of this course is based on Hart's *Formation of the Union* and Wilson's *Disunion and Reunion*. Much collateral reading, and two essays on assigned subjects are required of each member of the class. *Five hours per week, first term. Required of Pedagogical Seniors.*

Professor HERBERT.

7. **The Eastern Nations and Greece.**—The course is a text-book treatment of the history of the nations mentioned in the title, supplemented by such informal lectures, and library and written exercise work as can be given in the time allotted. The text-book is: *The Eastern Nations and Greece*, by Myers. *Three hours per week, third term. Required of all Agricultural Freshmen.*

Mr. GARNER.

8. **Roman History.**—The purpose of this course is to give the classes such an acquaintance with the history of ancient Rome as is possible in the time. The course is given as a text-book course, with as much library and written exercise work as seems advisable. Myers' *History of Rome* is used as a text-book. *Three hours per week, third term. Required of all Agricultural Sophomores.*

Mr. GARNER.



**Ancient History.**—This course treats of the same period in History as is given in courses 7 and 8, and is the equivalent of the two combined. *Five hours per week for one term. Required of all Pedagogical Freshmen, second term; and of all Engineering Sophomores, third term.* Professor HERBERT and Mr. GARNER.

**0. Mediaeval and Modern History.**—A general treatment of the subject is given by means of a text-book—the text-book used is Myers's Mediaeval and Modern History, Revised Edition. This course is a continuation of courses 8 and 9, and on its completion, pupils are presumed to have a reasonable acquaintance with the outlines of the world's history, and to have acquired some facility in the use of historic literature. *Five hours per week for one term. Required of all Pedagogical Sophomores, second term.* Professor HERBERT and Mr. GARNER.

### POLITICAL ECONOMY.

**Principles of Political Economy.**—The course is merely an introduction to the study of economics, and is intended to treat of the subject in a general way. The work is given by means of a text-book—Bullock's Introduction to the Study of Economics is at present in use—and free class discussion. *Five hours per week, second term. Required of all members of the Senior Class, except those taking the Textile Course.* Professor HERBERT.

### CIVICS.

**Civil Government.**—The salient points in the operation of local town, county, city and State government in the United States, and a study of the Constitution of the United States and of Mississippi, constitute the work of this course. This course is given by means of a text-book—Government in State and Nation, by James and Sanford—but collateral reading, and reports on assigned topics serve to strengthen the course. *Five hours per week for one term. Required of all Agricultural Juniors, and all Engineering and Industrial Pedagogy Seniors.* Professor HERBERT.

**1. American Economic and Industrial History.**—This course deals with the business aspects of early American colonization; the colonial labor and money supply; colonial commerce and manufactures; the economic aspects of the Revolution; the westward movement, and the public lands; the expansion of manufactures and commerce after the War of 1812; the protectionist movement; the development of internal improvements and railways;

the economic causes and results of the Civil War; commercial and industrial expansion since the Civil War. *One term, three hours per week. Required of Agricultural Seniors who elect History.*

Professor HERBERT.

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## HORTICULTURE.

Professor MCKAY.

Assistant Professor THOMPSON.

Instruction in this department is both theoretical and practical. Theoretical instruction is obtained from textbooks, lectures, reference books, bulletins and other publications. In the garden, orchard, vineyard, green-house, and upon the campus and grounds, object lessons are presented and work required which illustrated in a practical manner what is taught in the class rooms. Throughout the entire course, much stress is placed upon laboratory and field practice.

Instruction in the following subjects is offered by the department of horticulture:

- 16. Principles of Plant Culture.**—This course endeavors to give the student an outline of the life history of the plant from germination to maturity. Stress is laid on fruit formation, reproduction; also best method of propagation of plants by seeds, cuttings, layers, budding and grafting. *One term, five hours per week in class room, and two hours per week laboratory and field practice. Required of all Pedagogical Freshmen.*

Professor MCKAY and Assistant Professor THOMPSON  
Assisted by Professor CLOTHIER.

- 17. School Gardening.**—As far as the time and facilities will permit students are instructed in the best methods of designing and laying out school grounds, and in the art of embellishing the same with trees, shrubs, vines, flowers, grass, etc. An important feature of this course is the plot work upon which students conduct experiments in the propagation of and cultivation of common garden and farm crops. *One term, two hours in class room, and two hours, laboratory and field practice. Elective for Pedagogical Juniors.*

Professor MCKAY and Assistant Professor THOMPSON.

(a) **Principles of Horticulture**, (b) **Pomology**.—(a) The aim of this course is to give the student instruction in the underlying principles of the science of horticulture upon which all future work in this subject must be built. The subjects considered in (b) are the selection of sites and locations for home and commercial fruit plantations; study of the classes of fruits adapted to growing in Mississippi; selection of varieties for planting; preparation and cultivation of fruit soils. The treatment for diseases and insects by spraying and general care; the best methods of harvesting, packing and marketing fruits grown in Mississippi. *One term, four hours per week in class room and two hours per week laboratory and field practice. Required of all Agricultural Sophomores.* Assistant Professor THOMPSON.

(a) **Olericulture**, (b) **Floriculture**, (c) **Beautifying the Home Premises**.—Among the subjects considered in detail in this course are the following: the construction and management of hot-beds, cold-frames and greenhouses; the selection, propagation and tillage of vegetable soils; rotation of garden crops with farm crops; intensive manuring in connection with irrigation and drainage; the best methods of gathering, packing and marketing garden products.

In the limited time assigned to topic (c) in this course students should acquire a fairly good knowledge of the best methods of laying out the home grounds and of embellishing them with trees, shrubs, flowers, and lawn grasses. *One term, five hours per week in class room, and two hours per week in laboratory and field practice. Required of Agricultural Juniors.* Professor MCKAY.

1. **Advanced Horticulture**.—(a) A brief review of the previous work in Horticulture; research work in (b) Pomology; (c) Olericulture; (d) Commercial Floriculture; (e) Landscape Gardening.—The object of this course is to give the student a more extended knowledge of the subjects already considered; to teach him more of the science and the art of Horticulture; to instil in his mind the investigative spirit and to start him in the work of specializing in this branch of Agriculture. Work will be given in the class room, the laboratory, the garden, on the campus, and in the Library. Students taking this work will be assigned subjects for investigation and will be required to prepare bibliographies of literature on subjects investigated. *Three terms, five hours per week in class room, and two hours per week laboratory and field practice. Required of Special Horticulture Seniors.*

Professor MCKAY and Assistant Professor THOMPSON.

## INDUSTRIAL PEDAGOGY.

Professor HULL.

9. **Psychology.**—The laws of mind are studied in their relation (1) to the physical organism; (2) to their logical issues in human conduct; and (3) to the rational interpretation of mental phenomena. The work is based upon the discussion of Angell, his views being thoroughly discussed and compared with those of Dewey, James, etc. The text is Angell's *Psychology*. James's larger work, and the works of Dewey, etc., are used as references. *Five hours per week for one and one-half terms. Required of the Pedagogical Juniors.*
10. **The History of Education.**—The course deals with the rise and growth of educational theory as found in the records of the great nations that have held sway upon the earth; it traces the development of systems of education among the ancient nations, in the middle ages, and in modern times; it shows the relation of these systems to the national ideal, their bearing upon each other; and seeks to point out their influence in shaping the educational practice of the present time. The text-book is Monroe's *A Brief Course in the History of Education*. *Five hours per week, one and one-half terms. Required of the Pedagogical Juniors.*
11. **The Educative Process.**—A study of the functions of education; of the acquisition of experience; of the functioning of experience; of the organization and recall of experience; of educational values; and of the transmission of experience and the technique of teaching. The text-book is Bagley's *The Educative Process*. *Five hours per week for one and one-half terms. Required of the Pedagogical Seniors.*
12. **Class-Room Management.**—A consideration (1) of the routine factors of class room management, such as habit, starting right, mechanical devices, the daily program, attendance, hygienic conditions, order and discipline, penalties; (2) of judgment factors in class room management, such as attention, the technique of instruction, the "Batavia System," testing, disposition of the teacher's time, etc., etc. The text is Bagley's *Class-Room Management*. *Five hours per week for one and one-half terms. Required of the Pedagogical Seniors.*

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## MACHINE SHOP.

See Mechanical Engineering.



## MANUAL TRAINING.

See Mechanical Engineering.

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## MATHEMATICS.

Professor WALKER.

Associate Professor STARK.

Assistant Professor CRITZ.

Mr. WALLACE.

Mr. MAXWELL.

The object of this department is to furnish thorough and practical instruction in the courses which it offers.

1. **Algebra.**—Fundamental operations, simple equations, factors, multiples, fractions, fractional equations, simultaneous equations of the first degree, involution and evolution, theory of exponents, radical expressions, quadratic equations, and properties of quadratics. Slaughter and Lennes's Algebra. *Five hours per week, first, second and third terms. Required of all Freshmen.*

Professor CRITZ and Mr. WALLACE.

2. **Bookkeeping.**—An elementary course in bookkeeping and banking. It is thorough and practical, and fits one to take charge of any ordinary set of books. *Five hours per week, first term. Required of all Freshmen.*

Mr. MAXWELL.

3. **Plane and Solid Geometry.**—Rectilinear figures, the circle, similar polygons, regular polygons, and circles, lines, and planes, in space, polyhedrons, cylinders, cones, and the sphere. Wentworth's Plane and Solid Geometry. *Five hours per week, first term and second term. Required of Agricultural Sophomores.*

Professor STARK.

4. **Plane and Solid Geometry.**—The same as course 3, but more comprehensive. *Five hours per week, third term Freshman year, and first and second terms, Sophomore year. Required of Engineering, Textile, and Industrial Pedagogy students.*

Professor STARK and Mr. CRITZ.

21. **Advanced Algebra.**—Indeterminate co-efficients, binomial theorem, and common logarithms. Slaughter and Lennes's Algebra. *Five hours per week, first term. Required of Agricultural and Industrial Pedagogy Juniors.*

Professor STARK.



6. **Advanced Algebra.**—The same as course 21, but more comprehensive. *Five hours per week, third term. Required of Engineering, and Textile Sophomores.* Professors STARK and CRITZ.
  
7. **Plane and Spherical Trigonometry.**—Trigonometric functions of acute angles, the right triangle, goniometry, the oblique triangle the right spherical triangle, and the oblique spherical triangle. *Wentworth's Plane and Spherical Trigonometry. Five hours per week, first term. Required of Engineering and Textile Juniors.* Professor WALKER.
  
8. **Plane and Spherical Trigonometry.**—The same as course 7. *Five hours per week, first term. Required of Agricultural and Industrial Pedagogy Seniors.* Professor WALKER.
  
9. **Analytic Geometry.**—Loci and their equations, the straight line, the circle, systems of co-ordinates, and the conic sections. *Wentworth's Analytic Geometry. Five hours per week, second term. Required of Engineering Juniors.* Professor WALKER.
  
10. **Differential Calculus.**—Differentiation of algebraic, logarithmic, and exponential functions; successive differentiation, indeterminate forms, expansion of functions, maxima and minima, points of inflexion and singular points. *Taylor's Differential Calculus, Revised. Five hours per week, third term. Required of Engineering Juniors.* Professor WALKER.
  
11. **Integral Calculus.**—Standard forms, direct integration, definite integrals, integration of rational fractions, integration by rationalization, integration by parts, double and triple integration. *Taylor's Integral Calculus, Revised. Five hours per week, first term. Required of Engineering Seniors.* Professor WALKER.
  
13. **Analytic Mechanics.**—Composition and resolution of forces, moments, couples, center of gravity, friction, machines, rectilinear and curvilinear motion, constrained motion, work and energy, and moment of inertia. *Bowser's Analytic Mechanics. Five hours per week, second term. Required of Engineering Seniors.* Professor WALKER.
  
15. **Advanced Analytic Geometry.**—Homogeneous co-ordinates of point and line, principle of duality, poles and polars, reciprocal polars, loci of the second order, and elements of higher plane curves. *Informal. Open to graduates only.* Professor WALKER.

16. **Solid Analytic Geometry.**—Elements of analytic geometry of three dimensions, quadric surfaces, and twisted curves and surfaces. *Informal. Open to graduates only.* Professor WALKER.
17. **Advanced Differential Calculus.**—Fundamental principles and general methods with applications to problems arising in mathematics and physics. *Informal. Open to graduates only.* Professor WALKER.
18. **Advanced Integral Calculus.**—A complete treatment of the various methods of integration, definite integrals, multiple integral and elliptic integrals. and the elements of differential equations. *Informal. Open to graduates only.* Professor WALKER.
19. **Theory of Equations.**—Study of algebraic equations, transformations, determinants, and the solutions of numerical equations. *Informal. Open to graduates only.* Professor WALKER.
20. **Elements of Theory of Functions.**—Infinite series and integration, conformal representation, and algebraic functions and their integrals. *Informal. Open to graduates only.* Professor WALKER.
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## MECHANICAL ENGINEERING.

Professor BARNES.

Mr. CARPENTER.

Mr. SPINKS.

Mr. BRAGG.

Mr. ROUTTEN.

Mr. MONTGOMERY.

The Department of Mechanical Engineering is located in the Engineering building and has ample room for its work. The space allotted to this department includes an office, two large class rooms, an engineering laboratory, two wood working rooms, the forge shop, the foundry, the machine shop, the central power plant, and several store rooms.

The Wood Shop is located in a detached wing, 56x92 feet and has one large room for the purpose of instruction, fitted with the best of hand tools and 25 benches for car-

pentry and joinery. Twenty-four turning lathes, a jig saw, and a band saw, are also located in this room.

Another large room is provided for power machinery and contains a rip saw, a cut-off saw, a medium size surfacing planer, a large universal moulding machine, a steam dry kiln, and the necessary clamps and presses for glue work. A paint room and a store room are provided for the finishing of articles, and the storing of the completed product.

Two years ago additional room 40x60 feet was equipped with complete wood working tools and benches, and the manual training work, formerly given in another building, is now under the charge of this department.

The Foundry has been recently equipped with a new cupola melting furnace and the other equipment, including a core oven, and the usual molding tools, have been repaired, and are ready for use.

The Machine Shop is located in a large and well lighted room 49x90 feet, and contains fourteen engine lathes; two drill presses; a shaper, tool and drill grinders; speed lathes; planer; a universal motor driven milling machine; compressed air drills and portable air hammers, and a large assortment of hand tools usually used in machine work.

The Mechanical Engineering Laboratory has received considerable equipment during the past year, and now contains six simple steam engines; a steam condenser; seven gasoline engines; several steam pumps; a hydraulic ram, a water motor, complete set of oil testing machinery, a complete locomotive and train equipment of the Westinghouse air brake apparatus, an 100,000 pound Olsen testing machine fitted for tension, compression and transverse testing of building materials, a 50,000 inch pound torsion testing machine for shafting, and a large number of planimeters, indicators, pyrometers, and other instruments used in power testing.

The equipment of the central power house is also available for instruction. This includes a Harrisburg compound high speed engine, direct connected to a 40 K. W. generator, a McEwen 100 H. P. compound engine, direct connected to a 74 K. W. dynamo; two 125 H. P. return tubular boilers, one 75 H. P. B. & W. water tube boiler; two 100 H. P. Stirling water tube boilers; two large air compressors with receiving tank; steam and motor driven boiler feed pumps, vacuum pumps and feed water heaters. As the central power plant furnishes all water, steam, heat and power for the main buildings, these groups of apparatus are also available for purposes of instruction.

The course in mechanical engineering covers a period of four years, and aims to fit a student for engineering work in Mississippi, and to this end lays stress on shop instruction, the machine tools, the handling of boilers, steam engines, air compressors, gas engines, pumps, and other power machinery.

Students are employed in and about the power house, and are given practical instruction in the operation of the pumping, heating, lighting and power machinery.

During the past year, a ten ton ice plant has been erected, and is used for illustrating the principles of refrigeration and ice making. The ice made is used by the college departments that have perishable products, and is proving of great value in the successful storing of meats and vegetables.

All engineering students take the mechanical course during the freshman and sophomore years, and then specialize as to mechanical, electrical, or civil and mining engineering.

Those students who make mechanical engineering their main course during the junior and senior years, study the problems of the generation of power in power houses and power plants, and of its transmission to operating machinery, by all methods, except electrical means.



Since the power of steam is one of the main factors in our modern development of industries, boilers, engines, and pumps are studied with a view to securing from them the highest efficiency.

Then, too, since the gas engine is considered by all competent engineers as a more efficient power producing machine, while yet in its infancy, than the steam engine is after a century of development, its study has a prominent place in the course.

A limited amount of time is devoted to the design of these machines, and students are required to make complete working drawings for engines designed in the class room.

While these courses are laid out for the regular students, there are many men who are not prepared, or have not the time to devote to a full course, and for them a two-year special course has been prepared, covering the subjects of shop work, elementary mechanical engineering, and power plant operation. These men leave the college, not as technical graduates, but as practical machinists, and power plant operators. There is a good opening for men in these lines, and all who have completed the course have good positions. The assistant engineer in the college power plant is usually a man selected from those men in the special mechanical engineering course.

It is the desire of the mechanical engineering department to be of all possible service to owners and operators of power plants, of machine shops, and of manufacturing industries. To this end, correspondence is invited on any problems along mechanical engineering lines and the technical skill and equipment of the department is at the service of any citizen of the state.

The following courses are given:

24. **Wood Work.**—Elementary instruction given in bench work, involving the use of ordinary hand tools, such as planes, saws, chisels,



squares, etc. Such models and exercises are constructed as will arouse interest and stimulate thought. Much stress is laid on order and neatness, and the proper care and use of tools. *Four hours per week, first term. Required of all Freshmen.*

Mr. BRAGG and Mr. ROUTTEN.

**2. Wood Work.**—This course is a continuation of course 24. The first part of the work is arranged in a series of useful models and exercises, which are intended to give the student practice in the ordinary methods of carpentry and joinery. Such articles as drawing boards, T squares, and sma" cabinet boxes are constructed. During the latter part of the course, pieces of furniture such as tables, chairs, book-cases, tabourets, etc., are constructed. In this course the student is given some latitude in original design. He also has some experience in the use of wood working machinery, and in finishing with stains and varnishes. Near the end of the course, pattern making is taken up, and instruction is given in the making of simple patterns for machinery, and lectures on the care and use of tools and machinery; the quality, value and nature of the materials used; and the writing of the notes on subjects at hand are required. *Nine hours per week, second and third terms. Required of all Engineering Freshmen.* Mr. BRAGG.

**25. Wood Work.**—It is intended to make this short course as comprehensive as possible for those students who intend to follow agricultural pursuits. Besides the practical work at the bench, frequent talks are given on methods of building and repair work, estimating bills of lumber, etc. *Two hours per week, second term. Required of all Agricultural Freshmen.*

Mr. BRAGG and Mr. ROUTTEN.

**26. Manual Training.**—This work is given in three courses, and is intended for those who are preparing themselves for teachers. The work consists of both theoretical and practical manual training as given in the best public schools of the United States. The course includes paper folding, card-board construction, elementary and advanced knife work, bench work and wood turning.

(a) Paper folding, card board construction, elementary and advanced knife work.—This course is designed to furnish the student with a complete working knowledge of these branches of manual training, as taught in the lower grades of the public school. *Required of Pedagogical Freshmen, four hours per week, second and third terms.*

(b) Venetian iron work is given in sufficient amount to enable the student to become thoroughly conversant with the subject.

The course consists of about ten models, and allows time for the encouragement and practice of original design.

(c) Bench work and wood turning.—This course consists of forty models in bench work, involving the use of all ordinary hand tools, and of fifteen models in wood turning, which include turning between centers, face plate and chuck turning, polishing and finishing.

(d) Pattern making.—This course is very elementary, and comprises the theory pattern-making and the construction of a few, quite simple patterns, such as will serve best to illustrate the fundamental principles of pattern construction.

(e) Throughout this entire course, the work is based on the logical sequence of the exercises involved—from the simpler to the more difficult; and on the amount of educational value contained in each model, and in each manual training subject. Lectures are given on the history and theory of manual training, the care and use of tools and the quality and nature of the various materials used. A small amount of sketching from models and writing of notes on subjects in hand, is required, and also a short thesis on a manual training subject. *Elective. Six hours per week, first, second and third terms, for Pedagogical Sophomores, Juniors and Seniors.*

**7. Forge Work.**—Study of forge construction, forge tools and the making of forge fires. Calculation of stock for bent shapes, up-setting, drawing out, and bending. Exercises covering the principles of simple forge work, welding, tool dressing and tempering. Construction of lathe tools for the use of students in machine shop. The forge practice is supplemented by notes on the metallurgy of iron and steel; on case hardening and tempering. *Four hours per week, first and second terms. Required of all Engineering Sophomores.* Mr. CARPENTER.

**9. Forge Work.**—A short course covering the main portion of the course given the Engineering students. *Two hours per week, two terms. Required of Textile Sophomores.* Mr. CARPENTER.

**10. Foundry Work.**—Moulding from patterns made during previous year. Casting of repair parts, and for machines under construction. Core making for iron and brass castings. *Four hours per week, third term. Required of all Engineering Sophomores.* Mr. CARPENTER.

**11. Machine Work.**—Chipping, filing, drilling, and tapping, hand work with machine tools. Elementary machine tool work on

lathe, drill, press and planer. Lectures and instructions on the use and care of machine tools. *Four hours per week, one term.*  
*Required of all Textile Sophomores.* Mr. SPINKS.

12. **Machine Work.**—Chipping, filing, key-seating, drilling, tapping, laying out work from drawings, and hand work on machine tools. Elementary tool work with lathe, drill press and planer. For a text-book, "Hand Book for Apprenticed Machinists" (Beale), is used, and its instruction supplemented with lectures on the care and use of machine tools. *Four hours per week, three terms.*  
*Required of all Engineering Juniors.* Mr. SPINKS.

13. **Machine Work.**—Advanced work on lathe, drill-press, planer, and milling machine. Cylinder boring, gear cutting, making of taps and reamers over-hauling and repairing machinery, construction of steam and gasolene engines, and other machines, and apparatus needed in the shops and laboratories. Instruction in the use of jigs and templates, and methods for the quickest and most economical production of work. *Six hours per week, three terms.* *Required of Mechanical Engineering Seniors.*

Mr. SPINKS.

15. **Mechanical Engineering.**—Lectures and recitations, one term devoted to steam boilers, and one term devoted to steam engines. A study of the apparatus used in the generation of steam power. Text-books: Steam Boilers (Parsons), Power and Power Transmission (Kerr). *Five hours per week, first and second terms.*  
*Required of Mechanical and Electrical Juniors, and Textile Seniors.*

Professor BARNES, Mr. CARPENTER and Mr. SPINKS.

16. **Mechanical Engineering.**—Kinematics, covering the transmission of power by belts, ropes, shafting; the design of gearing, cams, quick return motions, and trains of mechanism. Text-book: Kinematics (Wood). *Five hours per week, third term.* *Required of Engineering Juniors and Textile Seniors.* Professor BARNES.

17. **Mechanical Engineering Laboratory.**—The application of the principles of engineering, as taught in class room. The study, use, and calibration of meters, nozzles, steam gauges, indicators, and calorimeters. Efficiency tests of boilers, engines, and pumps. Study of hydraulic rams, injectors and inspirators. *Three hours per week, three terms.* *Required of Mechanical Engineering Juniors.*

Professor BARNES and Mr. MONTGOMERY.

18. **Mechanical Engineering Laboratory.**—The application of the principles of engineering, as taught in class room. The study, use, and calibration of meters, nozzles, steam gauges, indicators,

and calorimeters. Efficiency tests of boilers, engines, and pumps. Study of hydraulic rams, injectors and inspirators. *Three hours per week, three terms. Required of Electrical Engineering Juniors.*

Professor BARNES and Mr. MONTGOMERY.

19. **Mechanical Engineering.**—Strength of materials. A comprehensive study of the various materials used in the mechanic arts; especial attention being given to the loading of beams and structures, as found in current engineering practice. Investigation of the causes that lead to the failure of materials in buildings and machinery. Text-book: "Mechanics of Materials" (Merri-man). *Five hours per week, first term. Required of all Engineering Seniors.*

Professor BARNES.

20. **Mechanical Engineering.**—Lectures and recitations. The study and design of gasolene engines; heating and ventilation of buildings; ice making and refrigeration; lubricants; and engineering contracts and specification. *Five hours per week, second and third terms. Required of Mechanical Engineering Seniors.*

Professor BARNES.

21. **Mechanical Engineering Laboratory.**—Operation and testing of power plants, air compressors, heating systems, and various types of steam engines. Thesis work on assigned subjects. Each student is given an opportunity to have charge of the college central power station, and to become familiar with power house methods. *Four hours per week, three terms. Required of all Electrical and Mechanical Seniors.*

Professor BARNES and Mr. MONTGOMERY.

22. **Mechanical Engineering.**—A short course in Wood Work, Forge Work, Machine Work, and Power Plant Operation. Designed for those students who remain at the college but a short period, and who desire to become proficient in the care and operation of power plants. *Thirty hours per week.*

Professor BARNES, Mr. CARPENTER, Mr. SPINKS, and Mr. BRAGG.

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## METALLURGY.

See Geology and Mining Engineering.

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## MILITARY SCIENCE AND TACTICS.

Professor GOODALE.

For the purpose of discipline and practical instruction the cadets are organized as a regiment of Infantry with



three battalions of four companies each, and a band and bugle and drum corps, with the usual cadet officers and cadet non-commissioned officers for line and staff. All dormitory and mess-hall cadets are located in the dormitory companies and are at all times under the supervision of their company officers and non-commissioned officers. The cadet officers and cadet non-commissioned officers of the corps are selected from those having the strongest moral characters, who have been active and soldier-like in the performance of duty, and exemplary in their general deportment, with due regard for academic standing and length of service in the corps. Ordinarily commissioned officers are appointed from the senior class, sergeants from the junior class, and corporals from the sophomore class.

The regiment is under the command of the Commandant of Cadets, who is given the honorary rank of Colonel, through whom discipline is maintained in all departments. The cadets are at all times under military control, and are thus taught habits of promptness and obedience to lawful authority, which will be of great value to the communities to which they belong. Members of the higher classes also learn to control others by exercising lawful authority over them, and are thus fitted for greater responsibilities at home.

The course of instruction is both theoretical and practical.

### THEORETICAL COURSE.

1. **Drill and Guard Duty.**—U. S. Infantry Drill Regulations to include the School of the Soldier, Squad, Company and Battalion, in Close and Extended Order, Advanced Guard and Outpost Duty, Marches, Camping, and Ceremonies. U. S. Guard Manual, to include the duties of sentinels, non-commissioned and commissioned officers of the guard, and officer of the day. *Five hours per week, third term. Required of all Juniors.* Captain GOODALE.

2. **Military Science.**—In view of the fact that very few of the cadets ever go into the regular service, but that a large number do go



and are now in the National Guard of the State, the course in Military Science will include, in the form of conferences or lectures, such things as the Guard most needs, and a knowledge of which is now lacking. This part of the course includes such subjects as Military Courtesy, Discipline, Military Correspondence, Forms that the National Guardsmen will be called on to prepare and understand, extracts from Field Service Regulations, and the Firing Regulation, and the care of the rifle and the equipments furnished by the State and Government. In detailing an officer of the army on duty at this college the U. S. Government requires that instruction in this department shall qualify cadets to serve as company officers of Infantry in the National Guard or Volunteers.

Captain GOODALE

### PRACTICAL COURSES.

3. **Practical Infantry Drill.**—(a) Drill in the School of the Soldier Squad, Company and Battalion, in close and extended order, ceremonies, advanced guard and outpost duty. *Two hours per week during three terms. Required of all able-bodied cadets.*

(b) A. M. Drill for fifteen minutes each morning (Sunday excepted), immediately preceding breakfast, at which time special attention is given to the physical training of the cadet by means of the Setting-Up Exercises, as laid down in the Infantry Drill Regulations.

Captain GOODALE and all CADET OFFICERS

4. **Practical Guard Duty.**—Guard-mounting daily, and sentinels posted over dormitory during meals. *Eight hours and twenty minutes per week, during entire session. Required of all dormitory students when detailed.*

Captain GOODALE, the CADET ADJUTANT, the OFFICER OF THE DAY and the OFFICERS OF THE GUARD.

5. **Practical Target Practice.**—Preliminary position and aiming drills a limited preliminary practice at short ranges and two (2) practice scores and two (2) record scores at 200 yards range and the same at 300 yards range. *Required of all able-bodied Juniors.*

Captain GOODALE and Cadet Captain STEVENS, Range Officer.

For the above practical instruction the United States has provided the college with 700 U. S. magazine rifles, calibre .30, and infantry accoutrements, also a liberal allowance of ammunition, including both ball and blank cartridges for small arms.

On completion of the Stephen D. Lee Administrative Building, it is proposed to construct and operate a gallery range in the armory to instruct in small arms practice and increase proficiency in same.

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## MINERALOGY.

See Geology and Mining Engineering.

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## MINING ENGINEERING.

See Geology and Mining Engineering.

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## PHYSICS AND ELECTRICAL ENGINEERING.

Professor REID.

Associate Professor PATTERSON.

Mr. McMURTRAY.

### PHYSICS.

**Elementary Physics.**—This course provides a year's work in pure physics for engineering students. The theoretical work consists of lectures illustrated by experiments performed before the class, and recitations and solution of practical problems by the student. The interest of the student is sustained by making the illustration as practical as possible. The time allotted to each of the sub-divisions is so adjusted that the student may become proficient in the subjects most adaptable to the engineering professions. Mechanics and heat are taught for one and a half terms; sound and light for one half term, and electricity and magnetism for one term. The accompanying laboratory course is devoted almost exclusively to the subject of mechanics, thus giving the student a practical knowledge of the application of the laws of mechanics. In addition to the laboratory exercises in mechanics, however, there are experiments on such subjects as photometry of the various types of modern illuminants, spectrum analysis, laws of lenses, determination of various heat constants, etc. Such students as may elect, are also given some instruction in practical photography, with special reference to its adaptability to engineering reports, etc. *Five hours per week, for three terms theoretical work, four hours per week for three terms laboratory work. Required of Engineering and Textile Sophomores.*

Professor PATTERSON and Mr. McMURTRAY.

2. **Elementary Physics.**—This course covers the subject of mechanics heat, sound, light, electricity and magnetism from a standpoint of general information. The laboratory work embraces proof of the important laws of mechanics. *Five hours per week for one term theoretical work, two hours per week for one term laboratory work. Required of Agricultural Freshmen, third term.*

Professor PATTERSON and Mr. McMURTRAY

4. **Elementary Physics.**—The subject is adapted to requirements of public schools and high schools and is made available for the training of those students who expect to teach. The laboratory course follows the subject as explanation and proof and consists in the manipulation of apparatus which may be readily made and used in high school courses. *Five hours per week for two term theory, two hours a week for two terms practice. Required of Pedagogical Sophomores.*

Professor PATTERSON and Mr. McMURTRAY

**Equipment.**—The equipment in physics for instruction and for experimental work is varied, modern, and of the best quality. The apparatus has been purchased to fit the course from a practical standpoint and is receiving additions as they become necessary. The class rooms are equipped with dark shades, and lantern illustration is made a feature of the work. The department is well provided with lecture room apparatus and the instrumental equipment is now such that great stress is laid on individual laboratory work. Multiple sets of apparatus permit laboratory experiments to be run more nearly parallel to the lectures and recitations, thus strengthening the instruction on both sides. The laboratories are large and well lighted and have dark rooms for photometric work and other experiments in optics. Store rooms are conveniently located and students are encouraged to become familiar with the use of all apparatus. A complete photographic outfit has recently been installed in connection with the work in physics. It consists of cameras ranging in size from those for pocket use up to 8x10 view cameras, apparatus for enlargement of pictures and for making lantern slides. The necessary dark rooms are fully equipped for

developing and printing and students are encouraged to use this equipment until they become familiar with practical photographic materials and methods.

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### ELECTRICAL ENGINEERING.

The object of the course in Electrical Engineering is to give such training as shall enable the graduate to deal intelligently with electrical problems likely to be presented to the practical engineer, and to enter successfully into practical work in those branches of engineering in which electricity plays the principal part. With this in view, principles rather than details are emphasized, and these principles are developed and fixed by the free use of concrete problems, as well as by laboratory experiments and tests.

In common with the other engineering courses, the first years are largely devoted to the study of physical science and mathematics, and the attempt is made to familiarize the student with both the analytical and graphical methods of treating physical problems. The purely electrical work extends through the third and fourth years, that of the third year being devoted to the more elementary theory and to the practice of the simpler tests and measurements in direct current machinery, while the study of the fourth year is largely directed toward alternating currents and alternating current machinery and the more complicated tests of the alternating current and dynamo laboratory.

Electrical methods are being adopted in a constantly enlarging field, and this is steadily increasing the demand for graduates of technical courses. To the earlier use of electricity for lighting, have been added its use for power in a very great variety of industries. The driving of machine shops by electricity, although it has become the standard method and is being installed in all new shops of importance, has yet a wide field for development. It



furnishes an ideal source of power in the textile industries, of such great importance in the economic development of our state.

Electrical railroading has already become one of the most important industries in which electricity is involved, and with substitution of electricity upon steam roads which is now begun, this application of electric power will grow very rapidly. In the telephone industry, both the manufacturing and operating companies are calling for technical graduates in ever larger numbers, and the engineering departments of this industry offer a most interesting profession.

To the electrical engineering graduates are opened several different lines of work. The electrical manufacturers have long required many men for their engineering, commercial and manufacturing departments; there are also positions with construction and commercial companies, and more recently larger demand is coming for men from the companies operating lighting and power plants.

The courses given in this department are as follows:

1. **Electricity and Magnetism.**—This course follows the Electricity and Magnetism of the sophomore year, but instruction is given more in detail, and with particular reference to the needs of the student in Electrical Engineering. It comprises a study of the theory of magnetism, a study of electro-magnets and the magnetism of iron as applied to dynamo-electric machinery, and a preliminary study of the dynamo, its parts and construction, and the principles underlying the construction and operation of dynamos. *Lectures and recitations, five hours a week for one term; laboratory practice, four hours a week for one term. Required of all Engineering Juniors.*

Professor REID.

2. **Dynamo Electric Machinery.**—This course comprises a study of the theory and operation of direct current dynamos as generators and motors, including series, shunt and compound wound machines; the theory of commutation, parallel operation, speed control of motors, power losses in generators and motors, efficiencies, characteristic curves, together with a discussion of the principles of



generator and motor testing. *Lectures and recitations, five hours a week for one term; laboratory practice, four hours a week for one term. Required of all Engineering Juniors.* Professor REID.

3. **Electrical Engineering.**—A study of the applications of direct currents for the distribution of power, including a study of distribution systems and wiring, and regulating apparatus, storage batteries, and an elementary study of the principles of photometry and electric lighting. *Lectures and recitations, five hours a week for one term; laboratory practice, six hours a week for one term. Required of all Engineering Juniors.* Professor REID.

5. **Alternating Currents.**—This course includes a study, by both graphical and analytical methods, of the theory of alternating currents; it includes the sine wave and its applications to electric circuits, other wave forms and the quantities which affect wave forms; a study of various types of alternating current circuits containing impedances in series and parallel combinations; the measurement of power in single and polyphase circuits, and the theory, operation, efficiency, and applications of the transformer. *Lectures and recitations, five hours a week for one term; laboratory practice, eight hours a week for one term. Required of Electrical Engineering Seniors.* Professor REID.

6. **Alternating Current Generators and Motors.**—A study of the theory, construction, and operation of all types of alternating current generators, of induction and synchronous motors, of alternating current regulators, rotary converters and applications, and of the newer types of repulsion and series alternating current motors. As experimental work in the laboratory is concurrent with this course, it also includes a discussion of the methods of testing alternating current apparatus. *Lectures and recitations, five hours a week for one term; laboratory practice, eight hours a week for one term.* Professor REID.

7. **Power Generation, Transmission and Distribution.**—This course comprises a study of generating apparatus in lighting and power plants, a study of station equipment, switch-boards and appliances, lightning protection and line construction. Technical articles in the engineering periodicals are largely used as reference texts in this course, and each student is assigned several topics during the term along the lines suggested above, and required to submit abstracts of articles on these topics before the class. *Lec-*

*tures and recitations, five hours a week for one term, laboratory practice, eight hours a week for one term. Required of Electrical Engineering Seniors.*

Professor REID.

**Equipment.**—The department has excellent facilities for practical experimental work. The apparatus includes 42 generators and motors of various makes and sizes from 40 horse power down, among them 110 volt and 220 volt direct and alternating current generators, series, shunt and compound wound, single, two and three phase motors, and more than 100 indicating ammeters, voltmeters, and wattmeters of the best types of American and foreign manufacture.

Some of the more important pieces of apparatus are a Special University Alternator, capable of being used as a generator, synchronous motor or induction motor for single, two or three phase currents, direct connected to a 220 volt, variable speed motor of wide range; a special revolving field, three phase, 2300 volt, 60 cycle generator, direct connected to 220 volt motor, all complete with switch-board containing ammeters, voltmeters, instrument transformers, wattmeters, ground detectors and synchronizing apparatus, the whole serving as an illustration of a modern power plant installation, as well as being available for tests; a 150,000 volt special testing transformer; a 10,000 volt testing transformer; a mercury arc rectifier set complete; a resistance-in-armature type, variable speed induction motor; a direct connected set, consisting of two 6 KW. each, compound wound 125 volt dynamos, used as a balancer set on 220 volt mains to give 110 volts for laboratory use; a special rotary converter for single, two or three phase use; transformers to change from two to three phase; auto-transformers from which a wide range of voltage may be obtained; a series arc generator with regulating device; alternating series arc regulators; a three-meter photometer bar, with modern photometer and motor-driven lamp holder; a 20 KW. two phase gen-

erator, arranged for compounding, direct connected to a 30 HP. motor; two similar compound generators, arranged for parallel operation; 15 transformers of various makes up to 10 KW. capacity, and many other machines and pieces of apparatus of ordinary characteristics. A vibrating reed frequency meter, tachometer and speed counters, lamp banks, water rheostats, and many other inductive and non-inductive resistance units are provided as auxiliary apparatus in testing the above mentioned machinery.

Standard ammeters and voltmeters for direct and alternating currents, a Kelvin balance, watt-hour-meter calibrator, oscillograph, 18-inch induction coil, two complete sets of wireless telegraph apparatus, and X-ray apparatus are other special pieces.

The college power plant, containing two direct connected, engine driven units, one of 75 KW. and one of 40 KW. capacity, and a 7.5 KW. high speed, turbine driven unit, and also some 34 motors, aggregating 218 horse-power, used in the various departments of the college, are maintained by students of this department, and are at all times available for instruction. In addition, all extensions and repairs on the distribution system, and the wiring systems in all new buildings are installed by students, who are paid for their labor, under the supervision of the department.

The lecture room is equipped with special alternating current apparatus, particularly for demonstrating phenomena of induction, and is lighted by carbon and flaming arc, Nernst, mercury vapor, carbon and metallic filament incandescent lamps, many types of each being represented, and so arranged on separate circuits that the room may in turn be lighted by each means. A complete line of cooking utensils and other household appliances are provided as an object lesson as a means of business getting for students who may enter the central station field.

**Telephone Equipment.**—Through the kindness of the Cumberland Telephone & Telegraph Company, the department is able to place before the students modern apparatus of a local energy telephone system, including the central switch-board, and although no course has been scheduled, each year several interested students on request have received regular instruction in the fundamental principles of telephone circuits and systems.

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## POULTRY HUSBANDRY.

Mr. KERR.

Theoretical instruction is given from text-books and lectures and practical instruction is given in the general management of poultry.

- 1. Poultry Culture.**—(a) The origin, description, characteristics and classification of the several breeds. (b) Principles of breeding and methods of mating. (c) Foods and feeding—the dissection and study of the digestive system of fowls; the digestible nutrients in various feeds; balancing rations; standards for maintenance, laying, growing rations. (d) Incubation and brooding—the study of the egg-producing organs; formation of the egg; special study of the development of the chick during successive stages of incubation; natural method of hatching and brooding; artificial method of hatching and brooding. (e) Care of growing chicks. (f) Parasites and diseases—external parasites, lice, mites, etc.; internal parasites, gape worms, tape worms, parasites in oviduct; diagnosis and treatment of different diseases. (g) Houses, trap-nests and other fixtures. (h) Breeding, fattening and finishing for the market. (i) Scoring and judging. *One hour per week theoretical and two hours per week practical. Second and third terms. Elective for Agricultural Seniors.*
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## PLANT DISEASES.

See Botany and Forestry.

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## POLITICAL ECONOMY.

See History and Civics.



## PSYCHOLOGY.

See Industrial Pedagogy.

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## RURAL ENGINEERING.

Professor WAGGONER.

1. **Farm Surveying and Leveling.**—The object of this course is to enable the student to do accurately all kinds of farm surveying and leveling and to get a practical knowledge of the different kinds of land drainage—surface drainage, under drainage, and hill side ditching and terracing. In addition to a theoretical study of these subjects, students make surveys of parts of the farm with chain alone, and also with chain and compass, compute the areas and make maps. With the level, they lay out surface and tile drains, hill side ditches, level terraces, etc. In addition to the practice work, students get considerable experience in actual work on the college farm, under the direction of the instructor. They are also taught how to make and use levels, to run hill side ditches and terraces, and are enabled to compare their accuracy with that of the engineer's level. *Five periods theoretical and three periods practical. Required third term, Agricultural Seniors.*
3. **Farm Machinery.**—This course embraces the study of machinery used on the farm; tillage, seeding, harvesting, threshing, and pumping machinery. Each will be taken up separately and in reference to their adaptation to the conditions of our state. The object is to acquaint the student with the machinery used on the farm. This applies particularly to tillage implements. A text-book will be used in this course. The student will be given an opportunity to compare implements, as to strength, workmanship, and general adaptability. The practical work will consist of a detailed study of a machine in the laboratory, under the guidance of the instructor. *Five hours a week for first term. Required of Agricultural Juniors. Elective first term Senior.*
4. **Rural Architecture.**—This course consists of a systematic study of farm buildings, their structure, heating, lighting, and cost; including the application of the simple principle of mechanics. The arrangement, location, material to be used in and care of farm buildings will form a part of the regular work. The student will be required, during the practical time, to design and draw plans for farm buildings. *One period lecture, four periods practical. Elective first term, Senior.*



5. **Gas and Oil Engines.**—The object of this course is the study of the principals and the operation of the internal combustion engine. *One lecture and three periods of practical per week. Elective third term, Senior.*
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## SOIL PHYSICS.

See Agronomy.

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## SURVEYING.

See Civil Engineering and Drawing, and Rural Engineering.

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## TEXTILE CHEMISTRY AND DYEING.

Associate Professor MONTGOMERY.

### CHEMISTRY.

1. **General Chemistry.**—Theoretical chemistry. Lectures with experiments, written exercises, and individual laboratory work. *Nine hours first and second terms. Required of all Textile Sophomores and of those who pursue special work with this Department.*
2. **Qualitative Analysis.**—An introduction to the subject of analytical chemistry, including the classification of metals, the characteristic tests used for their separation from certain of their compounds; a study of the principal non-metals and acids formed by them; the methods of separation and recognition of acids and acid radicals, and the qualitative analysis of the salts representing the bases and acids that have been so far considered; writing equations and the calculation of results. Chiefly laboratory work. *Seven hours third term Sophomore, and first term Junior. Required of all Textile students. In the Special Course the time will be increased to twelve hours.*
3. **Quantitative Analysis.**—Study of the quantitative precipitation and separation of certain representative elements and compounds; a discussion of the principles according to which quantitative determinations are made, including the theory of the chemical balance, the use of burettes, graduate flasks, etc., a consideration of the relative merits of the different systems of weights and measures. Lectures, written exercises, and laboratory work. *Seven hours, second term. Required of all Textile Juniors and*

*of those who pursue the Special Course offered by this Department. In the Special Course, the time will be increased to twelve hours.*

4. **Quantitative Analysis** (continued). An examination of the purity of certain commercial products used in textile establishments including soda ash, bleaching powder, sulphites, nitrites, bichromates, etc. Chiefly laboratory work. *Twelve hours, third term. Required of those who pursue the Special Course offered by this Department. Elective for Graduates who have passed in courses 1 and 3.*
5. **Organic Chemistry**.—A general course, consisting of graded exercises in the preparation and testing of carbon compounds of the fatty series, so selected as fairly to represent the characteristic differences between the various classes of compounds grouped under this head. Lectures, recitations, and laboratory work. *Seven hours, third term. Required of all Textile Juniors and of those who pursue the Special Course offered by this Department. In the Special Course, the time will be increased to twelve hours.*

## DYEING.

1. **Dyeing of Textile Fabrics, Experimental**.—A general course dealing with the behavior of fibers toward reagents—acids, alkalies, chlorine, etc.; bleaching of cotton with various substances; the theories of dyeing; water in its application to dyeing; the application of substantive dyes to cotton—including the methods of after treatment with metallic salts, developing, coupling, etc.; the mordanting process—tannin and the metallic compounds; dyeing cotton with basic and mordant dyes; the use of insoluble dyes—the application of indigo, aniline black, azo colors produced on the fiber, sulphur dyes, pigments; the mixing of colors for the production of compound shades; color matching; the valuation of dyes by means of comparative tests. *Eight hours through the year. Required of all Textile Seniors and of those who pursue the Special Course offered by this Department. In the Special Course the time will be increased to twelve hours.*

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## VETERINARY SCIENCE.

Professor LEWIS.

This course is designed as an adjunct to the agricultural department of the college. Its aim is to instruct students as to the care and management of live stock with

particular reference to the cure and prevention of the diseases to which animals are subject. All students in the agricultural school are given this instruction, as indicated below. Graduates of this school are admitted to advanced standing of one year in veterinary and medical colleges. It is not our object to turn out professional veterinarians, as that would be impracticable with the time, equipment, and teaching force allotted to the department. Students desiring to study veterinary medicine as a profession should graduate from our agricultural school if they can possibly spare the time and means, and then graduate from a regularly organized veterinary college.

This course is of a very practical nature. The theoretical instruction is supplemented by the treatment of diseases and by surgical operations in our weekly clinics. Practical material is also found almost daily among the college and station live stock.

7. Clinics.—Here we demonstrate practically the theoretical classroom work. *Two hours per week during the entire session.*
8. Veterinary Anatomy and Physiology.—*Five hours per week, second term. For Agricultural Juniors.*
9. Materia Medica and Therapeutics.—*Five hours per week, first and second term, Senior (Elective).*
10. Theory and Practice.—*Five hours per week. Three terms Senior (Elective).*

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## WEAVING.

MR. HAMBLEY.

1. Hand Loom Weaving.—Explanation of parts and working of hand looms. Weaving of such fabrics as stripes and plaids. *Two hours a week, through the year. Required of all Textile Sophomores.*
3. Hand Loom Weaving.—This course is similar to but more comprehensive than Course 1. In it are woven the weaves which are being simultaneously studied in Designing 4. The latter part of the course consists in producing fancy fabrics similar to those analyzed in Designing 8. *Six hours a week through the year. Required of all Textile Junior Specials.*

**Practical Power Weaving.**—Operation of plain looms with the object of familiarizing the student with the duties of the weaver. *Two hours a week, first term. Required of all Textile Juniors.*

**Practical Power Weaving.**—Making and weaving of original fabrics on plain looms. Students are required to do all the work necessary to the production of an assigned number of samples. *Three hours a week, second and third terms. Required of all Textile Juniors.*

**1. Practical Power Weaving.**—Students are taught to operate and fix dobby and Jacquard looms, to design and build box chains, etc. Their familiarity with the loom is obtained through the individual production of an assigned number of fancy cotton fabrics. Ginghams, plaids, lenos, piques, cotton damasks, etc., are woven. During the last half term, each student is given a loom and required to make thereon a fabric of a specified sort, leaving the loom in good running order at the end of the year. *Four hours a week through the year. Required of all Textile Seniors.*

**Practical Power Weaving.**—This course is conducted along the same lines as 5 and 6, but on account of the larger allowance of time a larger number of fabrics are woven. *Eleven hours a week first term; fourteen hours, second and third terms. Required of all Special Textile Seniors.*

**2. Theoretical Weaving.**—Lectures and recitations on the construction and operation of plain, dobby and box looms. *One hour a week, through the year. Required of all Textile Juniors and Junior Specials.*

**3. Theoretical Weaving.**—Lectures and recitations on the working of fancy looms, such as lenos, lappets, swivels, corduroy looms, towel looms, etc., supplemented by detailed drawings of the mechanism of each. *One hour a week through the year. Required of all Textile Seniors and Senior Specials.*

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## WOODWORK.

See Mechanical Engineering.

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## YARN MANUFACTURE.

Professor MEADOWS.

Mr. CRUMP.

Under the head of Yarn Manufacture is included a theoretical and practical study of all the processes and



machines used in the manufacture of cotton yarn, and in its preparation for the weave shop, or yarn market; picking, carding, roving, spinning, spooling, twisting, warping, slashing, and putting yarn in convenient form for handling.

1. **Operation of Machines.**—Practical working of the machines of the department to familiarize the students with the operation and functions of all the machines except the comber and the mule. *Three hours per week, first term. Required of all Textile Juniors.*
2. **Practical Carding and Spinning, Yarn Preparation, Warp Preparation.**—This is a continuation of course 1, involving practical operation, repairing, and adjustment of the machines of the department. Each student is given a working amount of cotton to put through all processes in accordance with a prescribed layout, thereby acquiring greater familiarity with the machines, a clear understanding of the functions of the various parts and essential practical statistics concerning each machine. *Three hours per week, second and third terms. Required of all Textile Juniors.*
11. **Practical Carding, Spinning, and Warp Preparation.**—In order that the students may gain that familiarity with many features of the work which may be had only by contact with the machines, practical operation of the machinery of this department continues with the introduction of cotton combing machinery and the spinning mule. This work embraces the laying out of original organizations for yarn in all processes, and the production of yarn in accordance therewith; experimental work for the determination of the most economical and efficient operation of the machines of the department. *Four hours per week, through the year. Required of all Textile Seniors.*
4. **Theoretical Picking, Carding and Spinning, Yarn and Warp Preparation.**—This course is designed to give the student a thorough theoretical knowledge of the processes after he has completed course 1. The work is carried on by the study of text-books, together with such lectures as may be profitable and necessary to the student in conjunction with course 2, that all theories may be tested and individual ideas experimented upon. *Four hours per week throughout the year. Required of all Juniors.*
5. **Theoretical Carding and Spinning.**—A more detailed study of the processes, and the theory of carding and spinning, including comb-



ing and mule spinning, than course 4, of which this is a continuation. This course is carried on simultaneously with course 11, and serves as a basis for the practical work therein. *Four hours per week, throughout the year. Required of all Textile Seniors.*

6. **Practical Carding and Spinning.**—This course is designed for those students who do not wish to take the entire textile course, but who are desirous of becoming familiar with the machines and processes of yarn manufacture. It embraces all the various processes of picking, carding, drawing, roving, spinning, etc., and the time allotted enables the student to become thoroughly familiar with the details and functions of all the machines and all the machines' parts. It aims to make the student capable of repairing all the defects that may come in the work of a machine and to have that machine produce its full product. *Sixteen hours per week throughout the year.*
7. **Theoretical Carding and Spinning.**—This course is along the lines of course 4, and is carried on by the means of text-books in addition to lectures in the class room and by demonstration of the operations of the machines in the carding and spinning room. *Four hours per week throughout the year. Required of those students electing course 6.*
8. **Advanced Carding and Spinning, Practical.**—Course 8, is for those students who have completed course 6, and is a continuation of the same. Students are taught the various changes necessary for the working of different grades and staples of cotton from coarse to fine yarns. The student studies through each machine all the processes, showing the effects of the various changes necessary to a different stock of change in organization. Original organizations are planned by each student, and he is personally the operator of each machine, using his own stock, and by experimenting and actual experience he is taught to guard against the defects that are possible. This course includes the operation of each and every type of machine needed in a mill producing fine yarns. *Eight hours per week throughout the year. Required of Senior Specials.*
9. **Advanced Theoretical Carding and Spinning.**—A course for those students of course 8. It aims by means of lectures and text-books to be a necessary adjunct of course 8, for the thorough understanding of the various organizations carried out practically therein. *Three hours per week, through the year. Required of Senior Specials.*

10. **Mill Economy.**—General mill construction, fire protection, heating, humidifying, etc. Cost finding in cotton mills and general mill management. *Two hours per week, third term. Required of all Textile Seniors and Senior Specials.*
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## ZOOLOGY AND ENTOMOLOGY.

Professor HARNED.

Mr. BLUMENFELD.

1. **Invertebrate Zoology** (formerly Biology 4).—A general course, dealing with the morphology, reproduction, physiology, classification, habits, life history, geographical distribution, and economic importance of invertebrate forms. Text-book: Herrick's General Zoology. *Two hours a week recitation and four hours in the laboratory. Third term. Required of Agricultural Juniors. Open to all students.* Mr. BLUMENFELD.
2. **Vertebrate Zoology** (formerly part of Biology 5).—A general course similar to that outlined in course, 1, but dealing with vertebrate forms. Text-book: Herrick's General Zoology. *Two hours a week recitation and four hours in the laboratory. First half of first term. Required of Agricultural Seniors. Open to all students. Prerequisite Course 1, or equivalent.* Mr. BLUMENFELD.
3. **General Entomology** (formerly given as Biology 5 and 6).—This is a general course dealing principally with the characteristics the different orders, sub-orders and important families of insects and with the habits and life histories of representative important economic species. About equal attention is given to the morphologic, systematic, and economic side of the work. Text-book: Comstock's Manual for the Study of Insects. *Two hours a week recitation and four hours a week in the laboratory. Second half of first term and all of second term. Required of Agricultural Seniors; offered to all students prepared to take the work. Prerequisite Courses 1 and 2, or equivalent.* Professor HARNED.
4. **Economic Entomology.**—This course deals with the life history, habits and remedies for the common injurious insect pests found in Mississippi. The insects injurious to vegetables, fruits, farm crops, man and domestic animals are studied, and especial attention is given to remedies and preventive measures. Laboratory; lectures; text-book, and assigned readings. Text-books: Chittenden's Insects Injurious to Vegetables and special bulletins.

*Three hours a week recitation, and two hours a week in the laboratory and field. Second term. Required of all Agricultural Sophomores. Open to all students.*

PROFESSOR HARNED.

5. **General Zoology** (formerly Biology 7).—This course is practically the same as courses 1 and 2, but not as complete. Both invertebrate and vertebrate forms are studied in the laboratory and class room. Text-book: Herrick's General Zoology. *Three hours a week recitation and four hours a week in the laboratory. Third term. This course is designed especially for those Pedagogical Sophomores electing Zoology, but is open to all students.*

MR. BLUMENFELD.

6. **General Entomology**.—This course is practically the same as course 3, but not quite as complete. Text-book: Comstock's Manual for the Study of Insects. *Three hours a week recitation and four hours a week in the laboratory. First term. This course is designed especially for Pedagogical Seniors, but is open to all students prepared to take the course. Prerequisite, courses 5 or 1 and 2 or equivalent.*

PROFESSOR HARNED.

7. **Economic Entomology**.—This course is practically the same as course 4, but is not as complete. Laboratory, lectures, text-books and assigned readings. Text-books: Chittenden's Insects Injurious to Vegetables, and special bulletins. *Two hours a week recitation, and two hours a week in the laboratory and field. Third term. Required of all Pedagogical Juniors electing Agriculture.*

PROFESSOR HARNED.

8. **Special Entomology**.—In this course the work is arranged to suit the needs and attainments of each individual student. Special lectures may be given and assigned readings may constitute a considerable part of the work, but this is supposed to be primarily a laboratory and field course. Any phase of entomological work may be taken up at this time. The insectary may be used for life history work, and the photograph gallery and department library are at the disposal of students prepared to use them. Both oral and written discussions of the work undertaken will be required from time to time. Hours and credits to be arranged individually. A student may elect any amount of time he desires in this course if it is acceptable to the head of the department. Laboratories are open daily from 8:30 to 5 P. M. Credit may be obtained for work done here during the summer. *Three terms. This course is designed particularly for Agricultural Seniors electing entomology but is open to all students desiring to take special*

*work in this department to prepare themselves for entomological work or teaching.* Mr. BLUMENFELD and Professor HARNED.

9. **Graduate Work.**—Graduates of this or other colleges may take up any line of investigation or research work in this department. Candidates for the Master's degree may take either the major or minor work. The work is arranged as in course 8. Laboratories open from 8:30 A. M. to 5 P. M. *Three terms and during summer.* Mr. BLUMENFELD and Professor HARNED.

## PRACTICAL WORKING BOYS' COURSE.

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This course has been arranged for the benefit of those young men of the state who are unable to take the regular course. Where the means may be obtained, of course, it is much better to take one of the regular courses; but this course opens up a way by which a boy or young man may come here without a dollar, and, by grit and determination, finally get an education. Those taking this course are only prospective students at first, working on the farm every day that the weather permits, being paid what their work is worth. They are taught an hour every night, and at such other times as circumstances will permit. In one year a boy ought to save money enough to enter college regularly the next session. During this year on the farm he will become familiar with all the improved breeds of cattle and how to feed them; with all the improved agricultural implements, and how to handle them; and with the most scientific methods of farming. This course is supplying a long felt want, and will soon be one of the most popular in the college.



# EXPERIMENT STATIONS.

## STATION STAFF.

W. L. HUTCHINSON, M. Sc.....	Director.
E. B. FERRIS, B. Sc.....	Assistant Director McNeill Station.
J. W. FOX, B. Sc.....	Assistant Director Delta Station.
C. T. AMES, B. Sc.....	Assistant Director Holly Springs Station.
† WILLIAM R. PERKINS, M. Sc.....	Agronomist.
J. S. MOORE, M. Sc.....	Dairy Husbandman.
J. P. KERR.....	Poultry Husbandman.
GEO. L. CLOTHIER, M. S., M. F.....	Botanist.
A. B. MCKAY, B. S.....	Horticulturist.
R. P. HIBBARD, PH. D.....	Bacteriologist.
JAMES LEWIS, B. S., M. D. C.....	Veterinarian.
R. W. HARNED, B. S. A.....	Entomologist.
J. A. MCLEAN, B. A., B. S. A.....	Animal Husbandman.
H. C. THOMPSON, B. S. (H. and F.).....	Assistant Horticulturist.
MISS SIDNEY GAY, A. B.....	Stenographer.

Four experiment stations are established for the purpose of conducting investigations in agriculture. The oldest of the stations is located at the college; one is located at McNeill, in Pearl River county; one at Holly Springs, in Marshall county; and one at Stoneville, Washington county. Located as they are, these stations furnish facilities for conducting experiments, the results of which will be directly applicable to the various soils and climatic conditions that obtain in the state. The college station deals with soils and conditions obtaining in the eastern part of the state; the McNeill station, with the pine-woods area in the southern part; the Holly Springs station deals with the problems of the brown loam area; and the Delta station with the delta soils and problems.

The results obtained by the stations are published in a series of bulletins and circulars which are sent to those

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† Resigned.

wishing them, free of cost. These publications contain useful information concerning soils and fertilizers, live stock and feeds, rotations and restorative crops, grasses and forage plants, field and garden crops, diseases of plants and animals, injurious insects and similar important matters pertaining to agriculture.

**Soils.**—Experiments dealing with tillage, rotation, drainage, and fertilizer problems are made at all four stations. Three of the stations deal with upland drainage, or terracing to prevent surface washing, and at Holly Springs this becomes an exceedingly important piece of work. Experiments with fertilizers are of prime importance at Holly Springs, but more especially at McNeill.

**Live Stock.**—For their work of investigation the stations have brood mares, beef cattle, dairy cattle, and hogs.

**Field Crops.**—Such standard crops as cotton, corn, cowpeas, oats, and potatoes, are grown at all of the stations, as well as many others that may be used for improving soils, and as feed for live stock.

**Grasses and Clovers.**—A great variety of grasses and clovers are grown each year for hay, forage, and pasture purposes. Such valuable plants as alfalfa, Johnson grass, lespedeza, melilotus, Bermuda, vetch, and soybeans are used regularly, while proper tests are made with many other grasses and clovers.

**Garden Crops.**—Information concerning the most important garden crops is obtained through the medium of experiments, and the list of plants grown comprises the most important crops for the home garden, as well as those usually grown by truck farmers.

**Orchard Crops.**—Peaches, plums, apples, pears, and pecans are grown. Besides commercial orchards at each station, many varieties are tested.

**Insects.**—The station entomologist studies, in a systematic way, the life histories of some of the most important injurious insects, including the Mexican cotton boll weevil. Insects injurious to live stock receive attention, as well as those injurious to plants.

**Diseases of Animals.**—The most commonly coccurring diseases of animals are studied by the veterinarian, special attention being given to southern cattle fever, and black leg.

**Dairying.**—The station dairyman regularly gives attention to such problems as arise in the handling of milk, and its products, and the management and care of a herd of dairy cattle.

While the work of the stations is intended primarily to be helpful to the farmers of the state, still the students attending college have access to the experiments made at the college station and to the results obtained at all the stations. The results are also used by the professors and instructors in the class rooms.

# THE MILITARY ORGANIZATION.

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J. C. HARDY, President, Head of the Military Department.  
Colonel G. S. GOODALE, (Captain 23rd Infantry, U. S. Army), Commandant.

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## THE REGIMENT.

C. B. BETHEA, Lieutenant Colonel, Commanding Corps of Cadets, and Assistant Commandant.

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## REGIMENTAL FIELD STAFF, AND NON-COMMISSIONED STAFF.

C. B. BETHEA.....	Lieutenant Colonel.
J. A. WEEKS.....	Captain and Adjutant.
J. W. MCCLELLAN .....	Captain and Quartermaster.
D. W. BILLINGSLEY.....	Captain and Commissary.
L. R. STEVENS .....	Captain and Ordnance Officer and Range Officer.
W. H. BUCKLEY.....	Regimental Sergeant-Major.
Y. S. SAVELY .....	Regimental Quartermaster-Sergeant.
H. T. POLLARD.....	Regimental Color-Sergeant.

## BAND.

W. W. ROUTTEN .....	Director of Band.
H. E. STOY (9).....	Captain.
C. A. OVERTON (14) .....	Second Lieutenant.
H. W. MOORE.....	Chief Musician.
A. L. JOURNEY.....	Drum Major.

## SERGEANTS.

R. H. ABBIE (32).

## CORPORALS.

S. W. RHODES <sup>1</sup> (12),	B. L. FIELD (22),	E. B. HARVEY (52).
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## FIRST BATTALION.

W. H. Bowman (1) .....Major.  
R. N. Lobdell (1) .....First Lieutenant and Battalion Adjutant.  
E. R. JONES (1) .....Second Lieutenant and Battalion Quartermaster.  
J. G. Spencer (1) .....Battalion Sergeant-Major.

### Company A:

M. H. James (1) .....Captain.  
P. F. Newell (12).....First Lieutenant.  
W. E. Ward (12) .....Second Lieutenant.  
W. R. Woodard (1).....First Sergeant.

#### SERGEANTS.

A. M. Adams (33), C. E. Roberts (38).

#### CORPORALS.

M. D. Smith (1), C. Roth (11), J. N. Stevenson (23),  
E. W. Pope (27), G. W. Reynolds (48), H. Cunningham (49).

### Company B:

J. A. Massey (7) .....Captain.  
P. K. Lutkin (6) .....First Lieutenant.  
G. C. Stroud (5).....Second Lieutenant.  
C. T. Rand (7) .....First Sergeant.

#### SERGEANTS.

H. M. Bizzell (2), J. M. Jennings (18), S. R. Simmons (22),  
T. L. Williamson (24).

#### CORPORALS.

G. L. Herrington (10), P. J. Scott (35), L. A. Martin (44), D. McIvor (50), E. Child (58), M. A. Pigford (59).

### Company C:

W. R. Vernon (10) .....Captain.  
B. E. Walker (11) .....First Lieutenant.  
C. E. Morrison (8) .....Second Lieutenant.  
L. A. Hurst (10) .....First Sergeant.

#### SERGEANTS.

S. C. Cawthon (6), H. Posner (34), V. B. Fox (35).

#### CORPORALS.

C. O. Baird (5), D. D. Funderburk (7), S. C. Thigpen (37).



#### Company D:

W. C. Rose (4).....Captain.  
C. P. Seab (3).....First Lieutenant.  
C. E. Killingsworth (13).....Second Lieutenant.  
W. H. Baker (4) .....First Sergeant.

#### SERGEANTS.

A. B. Butts (12), H. I. Ellzey (25), T. C. Cobb (26), L. W. Scale (27).

#### CORPORALS.

J. L. Holleman (31), J. B. Jones (32), J. E. Bergman (46),  
C. C. Doty (57).

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### SECOND BATTALION.

W. E. Brougher (2).....Major.  
R. W. Graves (2).....First Lieutenant and Battalion Adjutant.  
F. M. Smith (2) .....Second Lieutenant and Battalion Quartermaster.  
M. D. Broadfoot (2) .....Battalion Sergeant-Major.

#### Company E:

E. W. Lehman (2).....Captain.  
A. G. Atkinson (1) .....First Lieutenant.  
B. M. Walker (1).....Second Lieutenant.  
S. R. Varnado (2) .....First Sergeant.

#### SERGEANTS.

E. B. Whitiker (15), W. E. Daniel (28).

#### CORPORALS.

E. S. Franklin (2), C. C. Randall (13), H. R. Varnado (22),  
C. F. Reynolds (33).

#### Company F:

P. Newell (8) .....Captain.  
B. L. Cathey (10) .....First Lieutenant.  
S. T. Polk (4).....Second Lieutenant.  
C. T. Stevenson (10) .....Second Lieutenant.  
E. M. Sledge (8) .....First Sergeant.

#### SERGEANTS.

W. R. Horton (4), E. C. Baker (11), J. C. Watts (19), R. H. Brashier (30).

#### CORPORALS.

A. E. Terry (6), A. H. Allen (9), H. C. Stanford (30), W. C. Sharbrough (43), J. M. Langston (60).

#### Company G:

R. L. Pou (11) .....Captain.  
 G. C. McLeod (7).....First Lieutenant.  
 J. N. Toole (2) .....Second Lieutenant.  
 R. O. Scott (12).....First Sergeant.

#### SERGEANTS.

E. G. Kerr (5), A. C. Bryan (20), R. E. Killingsworth (37).

#### CORPORALS.

W. E. Batty (4), E. I. Roberson (19), E. G. Miller (25), W. R. Shaw (38).

#### Company H:

F. L. Walton (5) .....Captain.  
 J. E. Sides (4) .....First Lieutenant.  
 C. F. Gilbert (3) .....Second Lieutenant.  
 W. B. McMurtray (5) .....First Sergeant.

#### SERGEANTS.

E. D. Simpson (17), J. W. Overstreet (29), W. F. McDade (36).

#### CORPORALS.

T. H. Casanova (16), E. P. Gullledge (34), E. Jones (54), I. D. Magee (55), J. T. West (57), G. J. Leftwich (61).

### THIRD BATTALION.

H. B. Sanders (3) .....Major.  
 \_\_\_\_\_ .....First Lieutenant and Battalion Adjutant.  
 \_\_\_\_\_ .....Second Lieutenant and Battalion Quartermaster.  
 J. I. Sanders (3) .....Battalion Sergeant-Major.

#### Company I:

E. M. Alderman (3) .....Captain.  
 H. H. Harrington (2) .....First Lieutenant.  
 H. Anderson (7).....Second Lieutenant.  
 A. B. Lawrence (3) .....First Sergeant.

#### SERGEANTS.

F. M. Drake (1), T. W. Goldman (9), S. G. Lawrence (10),  
 J. R. Agnew (39).

CORPORALS.

R. V. Stevenson (15), E. H. Grantham (17), W. C. Journey (18),  
F. D. Thomas (45), E. G. Wade (62).

**Company K:**

A. J. Flowers (6) .....Captain.  
C. H. Redditt (8) .....First Lieutenant.  
J. A. Sieber (11) .....Second Lieutenant.  
H. J. McGraw (9) .....First Sergeant.

SERGEANTS.

S. F. Newell (13), F. D. Grantham (23).

CORPORALS.

F. W. Gardner (20), A. E. Thomas (28), T. B. Thrower (38 a).

**Company L:**

L. Cothorn (12) .....Captain.  
J. W. Helmes (9).....First Lieutenant.  
D. T. Horn (9).....Second Lieutenant.  
F. J. Hubbard (11) .....First Sergeant.

SERGEANTS.

A. C. Stewart (7), L. Kelly (8), J. H. Bullock (31).

CORPORALS.

J. M. Greaves (23), R. V. Gilleland (26), J. H. Hester (29)  
J. B. Allen (40).

**Company M:**

W. L. Hobby (13) .....Captain.  
J. N. Lipscomb (5) .....First Lieutenant.  
K. B. Falkner (6) .....Second Lieutenant.  
H. Barnes (6).....First Sergeant.

SERGEANTS.

G. H. Armstrong (3), A. V. Beard (14), L. I. Hudson (16).

CORPORALS.

H. M. Tirey (3), J. M. Moss (8), A. L. Manning (36), W. R.  
Collins (39), R. E. Chapman (41).

(NOTE.—Number in brackets after the name of a Cadet indicates his relative rank among Cadets of the same grade of rank, either at the time of his appointment or on the date of the roster. This roster of the Cadet officers and the Cadet non-commissioned officers in the Corps of Cadets is as it existed on the 1st day of January, 1910.)

# REGISTER OF STUDENTS.

## GRADUATE STUDENTS.

BIRCH, M. T., B. Sc.....	Mechanical Engineering
BLUMENFELD, S. F., B. Sc.....	Entomology
BRAGG, V. W.....	Industrial Pedagogy
CHISOLM, F. N. B. Sc.....	Chemistry
DENT, S. P., B. Sc.....	Agronomy
JACKSON, T. F., B. Sc.....	Industrial Pedagogy
LOVE, A. L., B. Sc.....	Industrial Pedagogy
McFARLAND, J. C., B. Sc.....	Chemistry
MONCRIEF, J. C., B. Sc.....	Civil Engineering
MONTGOMERY, W. B., B. Sc.....	Electrical Engineering
MULLENS, A. E., B. Sc.....	Industrial Pedagogy
NEAL, D. C., B. Sc.....	Bacteriology
NETTLES, W. R., B. Sc.....	Horticulture
RIGBY, J. N., B. Sc.....	Industrial Pedagogy
SNOW, G. G.....	Industrial Pedagogy
WHITWORTH, J. S., B. Sc.....	Dairying

## UNDERGRADUATES.

### SENIOR CLASS.

#### AGRICULTURAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Alderman, E. M.....	Lincoln	Mitchell, J. L.....	Issaquena
Brashier, E. S. ....	Clarke	Newell, P. F.....	Pontotoc
Falkner, K. B.....	Madison	Pou, R. L.....	Wayne
Flowers, A. J.....	Carroll	Ratliff, C. D.....	Holmes
Gilbert, C. F.....	Kemper	Redditt, C. H.....	Carroll
Greaves, P. R.....	Hinds	Sides, J. E.....	Tennessee
Jones, E. R. Jr.....	Marshall	Smith, F. M.....	Kemper
Lipscomb, J. N.....	Noxubee	Toole, J. N.....	Attala
Lloyd, E. R. Jr.....	Oktibbeha	Watson, B. K.....	Choctaw
Lobdell, R. N.....	Bolivar	Weeks, J. A.....	Holmes
McLeod, G. C.....	Greene		

#### ENGINEERING COURSE.

Atkinson, A. G.....	Chickasaw	Lilley, A. A.....	Copiah
Bethea, C. B.....	Lamar	Lutkin, P. K.....	Hancock
Billingsley, DeWitt, Montgomery		Magruder, L. A.....	Yazoo
Bowman, W. H.....	Holmes	Massey, J. A.....	Madison
Cathey, B. L.....	Tate	Morrison, C. E.....	De Soto
Gladney, T. G.....	Oktibbeha	Overstreet, L. L.....	Jones
King, B. F.....	Leflore	Roberts, B. Q.....	Hancock
Lehman, E. W.....	Franklin	Stevens, L. R.....	Copiah

NAME.	COUNTY.	NAME.	COUNTY.
Stoy, H. E.	Georgia	Walker, B. E.	Rankin
Team, R. B.	Oktibbeha	Walker, B. M. Jr.	Oktibbeha
Vernon, W. R.	Lincoln		

#### PEDAGOGICAL COURSE.

Anderson, H.	Lee	Horn, D. T.	Jasper
Brougher, W. E.	Hinds	Jones, O. G.	Rankin
Cothern, L.	Pike	Rose, W. C.	Greene
Harrington, H. H.	Chickasaw	Sanders, H. B.	Attala
Helms, J. W.	Jasper	Seab, C. P.	Franklin
Hobby, W. L.	Neshoba	Ward, W. E.	Oktibbeha

#### TEXTILE COURSE.

Killingsworth, C. E.,	Calhoun	Walton, F. L.	Lauderdale
Newell, P.	Pontotoc		

### JUNIOR CLASS.

#### AGRICULTURAL COURSE.

Abbey, R. H.	Alcorn	Dorrill, W. C.	Leake
Adams, A. M.	Noxubee	Eason, E. E.	De Soto
Anthony, H. G.	Attala	Horton, W. R.	Tippah
Armstrong, G. H.	Bolivar	Hudson, L. I.	Grenada
Baker, W. H.	Chickasaw	Jennings, J. M.	Panola
Barnes, H.	Smith	Kerr, E. G.	Oktibbeha
Beard, A. V.	Pontotoc	Lee, J. E.	Pike
Bizzell, H. M.	Tate	Morris, T. G.	Leflore
Brashier, R. H.	Clarke	Overstreet, J. W.	Oktibbeha
Byall, S.	Washington	Scott, R. O.	Webster
Cohen, E. E.	Pike	Sledge, E. M.	Louisiana
Cooke, F. D.	Webster	Stiles, C. F.	Oktibbeha
Daniel, W. E.	Tippah	Tyson, Jno. A.	Noxubee
Dille, A. B.	Oktibbeha	Whitaker, E. B.	Hinds

#### ENGINEERING COURSE.

Agnew, J. R.	Lee	Magill, O. R.	Georgia
Baker, E. C.	Rankin	Moore, H. W.	Tennessee
Benedict, B. S.	Prentiss	Neeley, E. G.	Tennessee
Bonney, E. T.	Clarke	Patrick, H. W.	Prentiss
Brice, J. S.	Georgia	Posner, H.	Clay
Broadfoot, M. D.	Smith	Reid, E. A.	Minnesota
Brogan, W.	Clay	Riley, J. L.	Lee
Buckley, W. H.	Copiah	Seale, L. W.	Hancock
Burt, A. K.	Clay	Smith, W. W.	Prentiss
Chiles, W. R.	Oktibbeha	Spencer, J. G.	Claiborne
Golding, T. W.	Lowndes	Sykes, W. M.	Montgomery
Journey, A. L.	Alabama	Team, E. L.	Oktibbeha
Fox, V. B.	Neshoba	Uttsey, A. N.	Wayne
Kinthead, J. A.	Washington	Varnado, S. R.	Pike
Lawrence, S. G.	Lowndes	Watts, J. C.	Lauderdale
McDade, W. F.	Lauderdale	Weissinger, W. J.	Coahoma
McGraw, H. J.	Yazoo	Williamson, T. L.	Marion
McMurtray, W. B.	Yazoo	Winter, R. R.	Chickasaw



# PEDAGOGICAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Bounds, J. E.....	Kemper	Kerr, Miss Josephine, Oktibbeha	
Bryan, A. C.....	Kemper	Lawrence, A. B.....	Lowndes
Butts, A. B.....	Lowndes	Prewitt, P.....	Choctaw
Cobb, T. C.....	Calhoun	Rand, C. T.....	Harrison
Drake, F. M.....	Lowndes	Sanders, J. I.....	Holmes
Ellzey, H. I.....	Marion	Simmons, S. R.....	Pike
Grantham, F. D.....	Simpson	Simpson, E. D.....	Grenada
Holmes, M. G.....	Pontotoc	Stewart, A. C.....	Sharkey
Houston, S. W.....	Leake	Vaughan, J. R.....	Lowndes
Hubbard, F. J.....	Noxubee	Woodward, W. R.....	Noxubee
Hurst, L. A.....	Noxubee		

# TEXTILE COURSE.

Killingsworth, R. E.....	Calhoun	Pollard, H. T.....	Panola
Newell, S. F.....	Pontotoc	Saul, T. G.....	Clay

# SOPHOMORE CLASS.

## AGRICULTURAL COURSE.

Allen, J. B.....	Lefflore	Magee, I. D.....	Franklin
Allen, J. F.....	Lauderdale	Mims, W.....	Oktibbeha
Bass, L. G.....	Lamar	Mims, W. C.....	Oktibbeha
Batty, W. E.....	Pearl River	Pigford, M. A.....	Lauderdale
Boggan, W. M.....	Simpson	Price, J. B.....	Lauderdale
Chapman, R. E.....	Panola	Ramsey, E. T.....	Oktibbeha
Chatham, W. D.....	Oktibbeha	Randall, C. C.....	Amite
Collins, W. R.....	Jones	Reynolds, C. F.....	Franklin
Crumpton, J. R.....	Oktibbeha	Reynolds, G. W.....	Alabama
Cunningham, L. F.....	Oktibbeha	Rhodes, S. W.....	Franklin
Fletcher, J. F.....	Hinds	Rigby, R. H.....	Clarke
Franklin, E. S.....	Monroe	Roberson, E. I.....	Panola
Gardner, F. W.....	Lee	Sharbrough, W. C.....	Yazoo
Grambling, J. J.....	Pearl River	Shaw, W. E.....	Clarke
Gulledge, E. P.....	Holmes	Smith, C. G.....	Holmes
Hairston, G. P.....	Lauderdale	Speckter, L. D.....	Bolivar
Haney, W. E.....	Monroe	Stanford, H. C.....	Holmes
Harding, L. P.....	Hinds	Stiles, R. C.....	Oktibbeha
Hardy, W. T.....	Newton	Terry, A. E.....	Monroe
Heard, G. T.....	Noxubee	Thomas, A. E.....	Lowndes
Herrington, G. L.....	Neshoba	Thompson, E. T.....	Scott
Joiner, A. L.....	Jasper	Tirey, H. M.....	Washington
Jones, E.....	Tate	Treen, C. W.....	Lamar
Keeton, W. M.....	Lauderdale	Utz, M. A.....	Warren
Kirby, R. C.....	Chickasaw	Weldon, D. L.....	Chickasaw
Langston, J. M.....	Covington	West, J. T.....	Wayne
McDonald, W. M.....	Lauderdale	Womack, M. S.....	Webster
McKinnon, M. M.....	Tate	Word, T. L.....	Chickasaw

# ENGINEERING COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Abele, W. H.	Tennessee	McBeath, T. R.	Lowndes
Allen, A. H.	Bolivar	Manning, A. L.	Sunflower
Baird, C. O.	Clarke	Margolis, D.	Oktibbeha
Beanland, W. C.	Prentiss	Martin, L. A.	Grenada
Blain, J. D.	Webster	Miller, E. G.	Marshall
Brown, T. P.	Lauderdale	Moody, C. S.	Clay
Carpenter, J. C.	Oktibbeha	Moss, J. M.	Jones
Carpenter, J. W.	Oktibbeha	Murry, T. M.	Tippah
Cunningham, H.	Alabama	Price, F. R.	Copiah
Cutrer, B. B.	Pike	Rothe, C.	Clay
Dee, B. H.	Lowndes	Scott, P. J.	Kemper
Field, B. S.	Adams	Shaifer, C. W.	Cliaborne
Funderburk, D. D.	DeSoto	Smith, M. D.	Attala
Gilleland, R. V.	Clarke	Solomon, H.	Washington
Harper, H. G.	Oklahoma	Stevenson, J. N.	Tennessee
Harrison, Blair	Lowndes	Stevenson, R. V.	Union
Herbert, S. A.	Holmes	Stoy, J. C.	Georgia
Hester, J. S.	Copiah	Thomas, F. D.	Lee
Hogue, W. H.	Lauderdale	Thrower, T. B.	Lowndes
Jones, C. W.	Noxubee	Tisdale, O. R.	Jones
Journey, W. C.	Alabama	Varnado, H. R.	Pike
Llumb, H. J.	Harrison	Wade, E. G.	Claiborne
Lacy, J. P.	Prentiss	Watkins, W. R.	Clay
Lobdell, J. V.	Bolivar	Weichardt, W. J.	Ohio
McBath, C. D.	Lauderdale	Williams, W. J.	Michigan

# PEDAGOGICAL COURSE.

Archer, J. A.	Prentiss	Harvey, E. B.	Clarke
Barrett, C. P.	Attala	Holleman, J. L.	Hancock
Bergman, J. E.	Jefferson	Jones, J. B.	Copiah
Britt, J. M.	Webster	Joiner, S. W.	Jasper
Cassanova, T. H.	Hancock	Laws, P. A.	Marshall
Child, E.	Copiah	Lee, S. B.	Bolivar
Coney, J. W.	Pike	McNeill, J. P.	Lee
Dennis, Miss Jetta	Oktibbeha	Pope, E. W.	Pike
Doty, C. C.	Holmes	Routten, J. R.	Virginia
East, W. J.	Tate	Simmons, G. E.	Pike
Ellard, J. A.	Calhoun	Spearman, W. A.	Yalobusha
Gilleland, G. T.	Clarke	Thigpen, S. G.	Jasper
Grantham, E. H.	Simpson	Walker, W. P.	Simpson
Greaves, J. M.	Madison	Whitten, S. R.	Hinds
Gray, H. C.	Oktibbeha	Woodward, T. W.	Oktibbeha
Harper, A. D.	Forrest		

# TEXTILE COURSE.

Johnson, S. T.	Clarke	Moody, C. S.	Clay
McIvor, S.	Harrison	Watts, J. T.	Lauderdale

# FRESHMAN CLASS.

## AGRICULTURAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Adams, W. W.	Attala	Kinard, J. N.	Lauderdale
Aderholdt, T. S.	Coahoma	Kirby, R. C.	Chickasaw
Arrington, M. A.	Wayne	Koch, Pieter, Transvaal,	S. A.
Ballard, J. C.	Webster	Lamb, J.	Jefferson
Barr, T.	Lincoln	Lewis, C. T.	Lincoln
Barrentine, E. S.	Leflore	Lindsey, E. C.	Coahoma
Batty, R. H.	Pearl River	Love, J. M.	Holmes
Bickham, J. O.	Pike	Lucas, W. B.	Noxubee
Bratton, J.	Hinds	McClure, J. C.	Lowndes
Breland, C. L.	Greene	McCoy, L. E.	Scott
Brister, O. E.	Holmes	McCullough, C. E.	Copiah
Brown, H. G.	Lauderdale	McGraw, J. A.	Yazoo
Brownlee, O. L.	Tate	McGraw, W.	Yazoo..
Brumfield, C. L.	Pike	Magruder, F. H.	Hinds
Brumfield, C. W.	Pike	Mansfield, C. G.	Panola
Butler, E.	Oktibbeha	Mason, D. M.	Benton
Butts, E. R.	Lowndes	Mercier, D. W.	Copiah
Cheek, W. L.	Madison	Mingee, G. A.	Jefferson
Childress, A. J.	Panola	Mingee, W. M.	Jefferson
Clardy, J. E.	Oktibbeha	Mitchell, H. L.	Panola
Critz, A.	Oktibbeha	Montieth, H. M.	Panola
Crockett, E. C.	Coahoma	Moore, C. K.	Issaquena
Curry, J. G.	Webster	Moragne, H. C.	Lamar
Davidson, W. B.	Choctaw	Morgan, C. E.	Oktibbeha
Dee, W. E.	Lowndes	Nelson, G. B.	Panola
Dodd, R. E.	Yazoo	O'Neal, C. E.	Harrison
English, M. L.	Monroe	Overstreet, C. A.	DeKalb
Fagan, F. G.	Wayne	Parker, J. C.	Neshoba
Farrish, G. B.	Carroll	Pilkinton, W. T.	Lowndes
Fisher, T. E.	Tate	Ramey, W. E.	Wayne
Frashier, J. H.	Virginia	Rainey, W. R.	Mayhew
French, H. O.	Franklin	Raney, H.	Lauderdale
Gaston, J. D.	Oktibbeha	Reid, M. D.	Oktibbeha
Gilbert, E. A.	Alabama	Rhodes, A. L.	Yazoo
Guerry, M. D.	Lowndes	Richardson, C. H.	Noxubee
Hall, D. S.	Louisiana	Ricks, F. L.	Oktibbeha
Haney, W. E.	Monroe	Riley, J. W.	Attala
Hays, J. L.	Panola	Roberds, E. S.	Monroe
Hester, J. G.	Webster	Rye, B. W.	Monroe
Hester, J. W.	Copiah	Sanders, J. W.	Holmes
Hester, W. M.	Newton	Scott, A.	Webster
Holloway, F. E.,	Jefferson Davis	Scott, J. W.	Louisiana
Jackson, Homer	Winston	Scott, S. V.	Webster
Jackson, P. G.	Oktibbeha	Shaw, E. L.	Choctaw
Jennings, M.	Florida	Sides, L. M.	Tennessee
Jones, C. H.	Wayne	Sims, W. A.	Tennessee
Joyner, V. H.	Clay	Slay, J. M.	Simpson
Keel, F. R.	Carroll	Smith, J. C.	Lauderdale
Keesee, L. D.	Coahoma		

NAME.	COUNTY.	NAME.	COUNTY.
Spinks, A. G.	Lauderdale	Venable, L. S.	Lamar
Stampley, C. A.	Yazoo	Walker, R. H.	Simpson
Swoope, W. M.	Lowndes	Ward, R. R.	Jackson
Tate, W. B.	Pike	Williams, L. M.	Calhoun
Therrell, P. A.	Monroe	Woods, W. W.	Chickasaw
Thomae, E. D.	Lowndes	Wilson, W.	Panola
Thompson, D. M.	Oktibbeha	Wootten, J. R.	Noxubee
Treloar, J. C.	Lafayette	York, W.	Yalobusha

#### ENGINEERING COURSE.

York, C. V.	Yalobusha	Lassiter, H. G.	Harrison
Anderson, C. W.	Lee	Latimer, R. A.	Oktibbeha
Armstrong, K. B.	Carroll	Lewy, H. E.	Washington
Anderson, W. H.	Copiah	McCarley, R. O.	Tippah
Barnett, S. M.	Tippah	McGehee, H. L.	Holmes
Bethea, R. O.	Lamar	McKie, M. S.	Tishomingo
Blythe, A. T.	Adams	Martack, W. F.	Sharkey
Bradford, P. H.	Harrison	Middleton, W. G.	Copiah
Brading, R. A.	Bolivar	Miner, G. A.	Lamar
Brevard, V. P.	De Soto	Moss, H. C.	Starkville
Brooke, J. W.	Lauderdale	O'Brien, C. W.	Lowndes
Brougher, J. E.	Hinds	Pearson, C. W.	Cliaborne
Brumby, A. S.	Holmes	Pierce, H. R.	Webster
Bryan, S. A.	Carroll	Phillips, L. A.	Prentiss
Churchwell, G. T. Y.	Greene	Pilkinton, B. C.	Lowndes
Cockerham, R. H.	Clay	Ripley, P. C.	Lincoln
Cole, G. H.	Yazoo	Robinson, H. L.	Coahoma
Conn, E. B.	Copiah	Robertson, S. C.	Marion
Davis, J. F.	Lauderdale	Rogers, M. A.	Lauderdale
Davis, L. M.	Coahoma	Rubin, I.	Adams
Demaico, J.	Bolivar	Sessions, H. R.	Hinds
Dixon, E. A.	Perry	Solomon, H.	Washington
Edwards, J. R.	Coahoma	Stevenson, H. M.	Lauderdale
Egerton, G. C.	Lauderdale	Street, V. L.	Tippah
Epting, J. B.	Lee	Suddoth, J. A.	Coahoma
Gaston, H. Y.	Newton	Sullivan, O. D.	Franklin
Greene, C. D.	Montgomery	Thompson, C. C.	Attala
Gunter, G.	Holmes	Tucker, R.	Bolivar
Hammonds, C. R.	Copiah	Watson, E. L.	Covington
Harrison, Lee	Lowndes	Wells, W. F.	Lauderdale
Harris, J. P.	Lee	Whitaker, J. D.	Hinds
Horgan, H.	Lauderdale	Wilkinson, R. E.	Lauderdale
Hurdle, E. F.	Marshall	Williams, W. N.	Prentiss
Katzes, W. F.	Franklin	Wingfield, F. G.	Coahoma
Knight, A. C.	Kemper	Woodfin, T.	Chickasaw
Laird, C. R.	Jefferson, Davis		

#### PEDAGOGICAL COURSE.

Alford, E. C.	Pike	Cain, L. L.	Monroe
Beckwith, P. W.	Lowndes	Case, H. T.	Clarke
Byrd, F. L.	Starkville	Coleman, J. M.	Webster



NAME.	COUNTY.	NAME.	COUNTY.
Cowart, C. F.	Franklin	Majure, J. E.	Neshoba
Crumpton, H. B.	Oktibbeha	Manship, L.	Hinds
Crumpton, R. E.	Winston	Mathis, L. L.	Calhoun
Currie, C. J.	Lauderdale	Mingee, E. W.	Jefferson
Dobbs, S. L.	Webster	Mitchell, F.	Jones
Dove, W. E.	Franklin	Nash, H. E.	Attala
Dunagin, G. A.	Jones	Newman, W. M.	Pike
Fortinberry, B. S.	Pike	Owens, W. A.	Tishomingo
Fortinberry, U. V.	Pike	Pryor, V. W.	Jones
Hamill, J. C.	Texas	Richardson, J. M.	Lamar
Guyton, J. S.	Attala	Russell, M.	Noxubee
Hamilton, C. K.	Covington	Sargent, E. F. B.	Choctaw
Holmes, D. W.	Forrest	Saul, R. L.	Clay
Leftwich, G. J.	Monroe	Shelton, A. D.	Copiah
Kellum, B. L.	Choctaw	Watson, H. T.	Warren
Lofton, W. D.	Franklin	Whitaker, F. H.	Hinds
McKinney, I.	De Soto		

#### TEXTILE COURSE.

Cobb, R. L.	Yalobusha	Hollingsworth, G. A.	Attala
Coman, R. M.	Tishomingo	Ulner, J. R.	Clarke
Egger, W. F.	Lowndes		

#### Freshman—UNCLASSIFIED.

Bryant, H. T.	Calhoun	*Phillips, C. S.	Lafayette
Campbell, J. E.	Pontotoc	*Quinn, H. L.	Lawrence
Cole, R. G.	Warren	Russell, M.	Noxubee
Engell, P. F.	Lauderdale	Skelton, R. O.	Lauderdale
Dodson, H. H.	Holmes	Simmons, J. L.	Pike
Lemler, L.	Washington	Simmons, O. M.	Pike
Nugent, R. J.	Bolivar	Whitfield, H. M.	Harrison
Lee, L. O.	Pike	Whitfield, W. A.	Harrison
Livingston, B.	Bolivar	Wall, W. E.	Covington
McKewen, R. C.	Claiborne	Williams, H.	Noxubee
Mingee, H. C.	Jefferson		

#### PREPARATORY STUDENTS.

Abernathy, H. G.	Chickasaw	Barrett, F. B.	Bolivar
Adams, O. L.	Yalobusha	Betts, H. G.	Lowndes
Alderman, W. H.	Lincoln	Bishop, V. L.	Wayne
Alford, V. H.	Pike	Bond, B. A.	Clay
Algood, A. L.	Attala	Bowman, D. O.	Lincoln
Alleman, A. B.	Harrison	Bradley, J. B.	Marion
Alleman, A. F.	Harrison	Brashier, B. A.	Clarke
Allen, W. F.	Jefferson	Brashier, C. E.	Clarke
Allen, W. L.	Jefferson	Brooks, R. M.	Bolivar
Anderson, M. M.	Lauderdale	Brown, J. E.	Oktibbeha
Andrews, G. D.	Issaquena	Brown, T. A.	Lee
Ballard, W. A.	Tennessee	Bryant, E. C.	Pearl River
Banks, B. R.	Warren	Buie, B. F.	Jefferson



NAME.	COUNTY.	NAME.	COUNTY.
Bullock, C. T.	Holmes	Gilbert, R. P.	Alabama
Burris, B. E.	Amite	Giles, C. E.	Tippah
Busby, B. A.	Jones	Graham, T. R.	Warren
Cagle, C. F.	Coahoma	Green, H. G.	Tate
Calcote, M. C.	Franklin	Green, H. L.	Greene
Caldwell, B. H.	Union	Grisham, C. E.	Prentiss
Caldwell, S. C.	Lowndes	Grisham, C. C.	Prentiss
Childers, H. J.	Tippah	Grisham, J. H.	Prentiss
Childress, W. G.	Yazoo	Haines, G. M.	Okqibbeha
Catlett, A.	Madison	Hamrick, H. W.	Carroll
Clardy, T. A.	Oktibbeha	Hardy, A. N.	Jasper
Chapman, J. E.	Hinds	Hart, J. C.	Yazoo
Clark, F. J.	Lamar	Heard, J. M.	Chickasaw
Clayton, J. K.	Lee	Henry, T. B.	Leflore
Clay, J. D.	Franklin	Hosey, D. A.	Jasper
Cockrell, H. D.	Noxubee	Howard, B. H.	Oktibbeha
Coen, M. C.	Pike	Hurlbert, C. B.	Lamar
Cole, R. D.	Tate	Hurt, H. H.	Lauderdale
Cole, J. A.	Amite	Jackson, H. T.	Oktibbeha
Cook, A. C.	Monroe	Johnston, J. F.	Montgomery
Cook, J. F.	Neshoba	Johnson, J. W.	Yazoo
Cook, T. I.	Kemper	Jones, F.	Bolivar
Cook, T. M.	Neshoba	Jones, L. W.	Sunflower
Coombs, T. Y.	Tippah	Jordan, Miss Kate,	Oktibbeha
Cooper, G. P.	Marion	Josey, R. L.	Oktibbeha
Cotton, J. J.	Franklin	Killingsworth, B. W.,	Claiborne
Courtney, C. P.	Yalobusha	Knight, J. R.	De Soto
Cowart, S. F.	Yalobusha	Lacy, S. B.	Yazoo
Crawford, G. L.	Benton	Lavender, L. C.	Kemper
Crump, S. P.	Clay	Ledbetter, S. R.	Noxubee
Crumpler, H. L.	Tunica	Lee, J. L.	Sunflower
Culley, C. B.	Jefferson	Lee, L. O.	Pike
Curran, J. M.	Yazoo	Lowe, E. E.	Lauderdale
Darnell, W. F.	Holmes	McBee, J. S.	Sunflower
Davis, D. C.	Coahoma	McAllum, W.	Kemper
Davis, W. B.	Sunflower	McCaskill, K.	Kemper
Dollar, R. T.	Monroe	McCaskill, M. M.	Kemper
Doughdrill, L. P.	Greene	McGowan, H. E.	Clarke
Downing, M. A.	Chickasaw	McHenry, A. W.	Grenada
Dudley, W. E.	Kemper	McInnis, R.	Greene
Earnest, N. S.	Alabama	McKinney, E. E.	Copiah
Edwards, R. L.	Oktibbeha	McMaster, J. H.	Yazoo
Ellard, R.	Calhoun	Magness, D. N.	Calhoun
Evans, C.	Jackson	Magness, J. J.	Calhoun
Everett, C.	Simpson	Manning, L. L.	Sunflower
Everett, O. E.	Simpson	Mason, W. W.	Benton
Faurot, J. C.	Attala	Mercier, T. Y.	Pike
Flowers, H. H.	Leake	Metts, J. M.	Panola
Fortinberry, N. C.	Pike	Mills, R.	Greene
Foster, D. E.	Oktibbeha	Moore, J. B.	Franklin
French, C. A.	Claiborne	Moore, W. B.	Franklin
French, C. O.	Franklin	Moraes, A. F.	Brazil, S. A.
Garrison, J. E.	Covington	Morris, J. W.	Tate

NAME.	COUNTY.	NAME.	COUNTY.
Morson, H. B.	Hinds	Standifer, W. E.	Hinds
Moss, A. D.	Sunflower	Stewart, W. W.	Issaquena
Neal, H. S.	Carroll	Strahan, L. C.	Forrest
O'Cain, E. C.	Madison	Tann, O. G.	Kemper
Newman, J. L.	Amite	Taylor, I. C.	Lauderdale
O'Flinn, C. L.	Lauderdale	Taylor, J. W.	Carroll
Olson, L. A.	Grenada	Thompson, L. L.	Louisiana
Orr, J. A.	Panola	Terrell, G. B.	Grenada
Owens, C. E.	Pike	Thorsen, K. W.	Sunflower
Pace, T. L.	Madison	Tigrett, D. D.	Tippah
Patterson, J. W.	Simpson	Welsh, A. B.	Lamar
Pearson, J. W.	Claiborne	Tingle, J. T.	Lauderdale
Perton, M. H.	Louisiana	Turner, C. F.	Bolivar
Phillips, R. L.	Leake	Turner, J. J.	Greene
Poindexter, C. B.	Tate	Turner, J. W.	Lowndes
Pou, P. W.	Wayne	Turner, R. L.	Greene
Rainey, J. L.	Grenada	Wade, J. D.	Jefferson
Rawles, R. L.	Lamar	Waldrup, C. L.	Alabama
Rhodes, H. M.	Yazoo	Walker, A.	Oktibbeha
Riley, W. C.	Attala	Walker, I. C.	Lauderdale
Roberts, T. D.	Leake	Wall, R.	Covington
Roberts, W. L.	Marshall	Walton, O. K.	Calhoun
Roberts, W. W.	Smith	Ward, C. E.	Greene
Rosenbaum, J. A.	Kemper	Ware, D. R.	Covington
Ryan, O. M.	Arkansas	Warren, H. G.	Lauderdale
Scott, L. D.	Webster	Watson, G. H.	Webster
Seale, W. C.	Neshoba	Watson, J. G.	Leflore
Segrest, A. B.	Jefferson	Wentworth, P. H.	Franklin
Self, W. E.	Tate	Weissinger, H. M.	Yazoo
Shackelford, J. L.	Yazoo	White, C. W.	Attala
Sheffield, R.	Calhoun	Whitworth, J. L.	Madison
Sims, C. S.	Sunflower	Williams, A. M.	Copiah
Simmon, R. M.	Pike	Williams, F. E.	Coahoma
Smith, E.	Kemper	Williford, T. Y.	Carroll
Smith, J. M.	Kemper	Wilson, H. B.	Sunflower
Smith, R. R.	Tate	Wylie, H. W.	Choctaw
Spain, C. L.	Prentiss	Yarborough, R. L.	Pike
Spitzkeit, W.	Lincoln	Yerger, A.	Bolivar

### SPECIAL ENGINEERING.

Bond, S. S.	Jackson	Reynolds, W. K.	Montgomery
Haddon, U.	Scott	Smith, W. W.	Prentiss
Kelhor, E. J.	Harrison	Thomas, E. C.	Oktibbeha
Kelhor, F. W.	Harrison	Utsey, E. G.	Wayne
Moter, H. M.	Oktibbeha	Williamson, L. M.	Madison
Owen, H. M.	Lowndes		

### SPECIAL TEXTILE.

Bishop, E. B.	Wayne	Callendar, A. A.	Claiborne
Blanks, C. F.	Lauderdale	Clark, G. C.	Attala

NAME.	COUNTY.	NAME.	COUNTY.
Cunningham, C. M.	Noxubee	McKewen, J. S.	Claiborne
Davis, H. T.	Wayne	McRee, W. D.	Prentiss
Dyess, C. R.	Clarke	Orr, W.	Leake
Evans, N. P.	Leake	Parker, G. C.	Clarke
Gresham, J. F.	Prentiss	Pigford, W. E.	Lauderdale
Hendricks, J. B.	Montgomery	Price, J. L.	Lauderdale
Hurt, W. H.	Lauderdale	Savely, T. S.	Chickasaw
Johnston, M.	Carroll	Watson, E. A.	Claiborne

### SPECIAL AGRICULTURAL.

Ames, W. A.	Oktibbeha	Dickson, R. H. B.	England
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### PRACTICAL WORKING BOYS' COURSE.

Aldridge, M. L.	Panola	Odom, J. A.	Clarke
Alford, Y. S.	Pike	Parker, C. G.	Clarke
Anderson, J. I. Jr.	Adams	Partridge, J. A.	Yazoo
Anthony, J. C.	Attala	Peevy, P.	Lawrence
Barnes, C. H.	Noxubee	Phillips, H. G.	Alabama
Boggan, N. B.	Simpson	Pugh, R. S.	Oktibbeha
Branning, W. J.	Lincoln	Randall, K. K.	Amite
Brown, F.	Yazoo	Rawls, G. P.	Adams
Brown, F. C.	Newton	Roberts, E.	Yazoo
Brumfield, B. B.	Pike	Roberts, T. D.	Leake
Carter, H. T.	Clay	Rodgers, F. H.	Holmes
Clark, O. D.	Noxubee	Russell, R. T.	Yazoo
Cockrell, R. L.	Macon	Sanders, E. E.	Oktibbeha
Connell, R. E.	Lauderdale	Sorrels, J. W.	Copiah
Cooper, L. L.	Rankin	Smith, C. W.	Lincoln
Dickey, E. H.	Pike	Snell, W. M.	Carroll
Doty, M. P.	Attala	Sorrels, R. L.	Copiah
Draper, G. F.	Leake	Sullivan, O. L.	Hinds
Egerton, G. A.	Lauderdale	Talley, E. G.	Arkansas
Everett, E. G.	Newton	Taylor, T. R.	Oktibbeha
Greer, F. E.	Alabama	Templeton, W. L.	Oktibbeha
Hamill, R. E.	Winston	Vanderburg, G. M.	Panola
Harris, C. H.	Marshall	Wall, W. P.	Pike
Hickman, D. P.	Lincoln	Watkins, W. C.	Kemper
Kea, J. C.	Tallahatchie	Williams, G. C.	Leake
McCool, G. W.	Attala	Williams, R. L.	Oktibbeha
McCune, J. K.	Carroll	Williams, R. P.	Attala
McGarah, A. J.	Holmes	Williams, W. L.	Noxubee
Miller, L. E.	Lee	Williams, W. Loraine.	Attala
Oaks, A. J.	Holmes	Wolcott, O. C.	Harrison
O'Byrne, W. E.	Noxubee	Womack, B. M.	Webster

## IRREGULARS.

NAME.	COUNTY.	NAME.	COUNTY.
Adams, A. C.	Neshoba	Overton, C. A.	Alcorn
Alford, C. W.	Pike	Peaster, W. G.	Yazoo
Armstrong, A. B.	Arkansas	Pilgreen, E. C.	Calhoun
Anderson, C. O.	Oktibbeha	Polk, S. T.	Lamar
Anderson, J. M.	Noxubee	Phillips, C. S.	Lafayette
Barrier, J. H.	Yazoo	Ransom, R. C.	Oktibbeha
Baylis, R. C.	Forrest	Richardson, R. L.	Forrest
Brandt, G. C.	Harrison	Riley, J. L.	Lee
Bullock, H. J.	Pike	Robertson, T. D.	Clay
Bullock, C. S.	Copiah	Russell, C. H.	Jones
Bullock, W. E.	Pike	Sieber, J. A.	Marshall
Carpenter, H. G.	Oktibbeha	Stallworth, C. G.	Monroe
Cade, R. K.	Noxubee	Sloan, W. A.	Tate
Dee, B. H.	Lowndes	Stevenson, C. T.	Union
Dix, D. M.	Adams	Stroud, G. C.	Lauderdale
Dorrill, G. B.	Leake	Street, E. C.	Tippah
Fulcher, P. N.	Choctaw	Tate, T. W., Jr.	Noxubee
Graves, R. W.	Wilkinson	Turnbough, W. F.	Lincoln
Hays, J. D.	Webster	Uttsey, A. N.	Wayne
Hogan, J. B.	Oktibbeha	Walker, W.	Oktibbeha
James, M. H.	Madison	Wands, G. S.	Louisiana
Knott, C. A.	Holmes	Warren, W. C.	Jones
Kirkpatrick, J. H.	Calhoun	Williams, H.	Noxubee
Lucas, J. L.	Lafayette	Williams, W. J.	Minnesota
Lucas, W. Y.	Oktibbeha	Word, T. L.	Chickasaw
McCarley, B. C.	Lee	Wright, J. B.	Panola
McLellan, J. W., Jr.	Holmes	Wright, N. M.	Franklin
Mason, E. T.	Newton		

## UNCLASSIFIED.

Andrews, P. A.	Quitman	Mitchell, G. Y.	Tippah
Bartlett, L. L.	Alabama	Muskelley, J. L.	Tate
Boggan, J. M.	Simpson	Newsom, B. D.	Tate
Butler, V. B.	Pontotoc	Powers, T. E.	Holmes
Courts, W. F.	Yazoo	Reynolds, W. P.	Montgomery
Culley, L. D.	Jefferson	Reeves, J. L.	Lincoln
Denton, T. L.	Webster	Sayle, F. L.	Benton
Floyd, J. S.	Tate	Shelton, L. L.	Jefferson
Grossman, J. J.	Tennessee	Stokes, V. L.	Lee
Hemphill, J. B.	Lincoln	Thornhill, J.	Pike
Hunter, W. C.	Noxubee	Tyler, H. S.	Carroll
James, W. A. S.	Montgomery	Young, R. H.	Leflore
Kealhofer, W. J.	Carroll		

## ATTENDANCE BY COUNTIES.

COUNTY.	NO.	COUNTY.	NO
Adams	8	Amite	7
Alcorn	2	Attala	29

COUNTY.	NO.	COUNTY.	NO.
Benton .....	3	Madison .....	12
Bolivar .....	17	Marion .....	5
Calhoun .....	13	Marshall .....	8
Carroll .....	16	Monroe .....	14
Chickasaw .....	14	Montgomery .....	8
Choctaw .....	9	Neshoba .....	9
Claiborne .....	12	Newton .....	8
Clarke .....	18	Noxubee .....	22
Clay .....	14	Oktibbeha .....	63
Coahoma .....	14	Panola .....	15
Copiah .....	16	Pearl River .....	4
Covington .....	7	Perry .....	1
De Soto .....	6	Pike .....	36
Forrest .....	8	Pontotoc .....	6
Franklin .....	17	Prentiss .....	14
Grenada .....	7	Quitman .....	1
Greene .....	10	Rankin .....	6
Hancock .....	4	Scott .....	3
Harrison .....	14	Sharkey .....	2
Hinds .....	17	Simpson .....	10
Holmes .....	19	Smith .....	3
Issaquena .....	4	Sunflower .....	10
Jackson .....	4	Tallahatchie .....	1
Jasper .....	7	Tate .....	15
Jefferson .....	14	Tippah .....	12
Jefferson Davis .....	4	Tishomingo .....	3
Jones .....	10	Tunica .....	1
Kemper .....	20	Union .....	4
Lafayette .....	5	Warren .....	5
Lamar .....	12	Washington .....	7
Lauderdale .....	43	Wayne .....	12
Lawrence .....	2	Webster .....	15
Leake .....	10	Wilkinson .....	2
Lee .....	14	Winston .....	9
Leflore .....	7	Yalobusha .....	7
Lincoln .....	19	Yazoo .....	26
Lowndes .....	27		

#### ATTENDANCE BY STATES AND OTHER COUNTRIES.

Alabama .....	11	Oklahoma .....	1
Arkansas .....	4	Minnesota .....	1
Georgia .....	3	Michigan .....	1
Louisiana .....	7	Ohio .....	1
Tennessee .....	9	Brazil, South America .....	1
Texas .....	1	England .....	1
Florida .....	1	Transvaal, South Africa .....	1
Virginia .....	3		



# LIST OF STUDENTS WHO ATTENDED THE SHORT COURSE IN AGRICULTURE, MISSISSIPPI A. & M. COLLEGE.

Session 1909.

NAME.	COUNTY.	POSTOFFICE.
Alford, G. H.	Pike	Magnolia
Anthony, J. B.	Oktibbeha	Crawford
Adams, O. L.	Yalobusha	Oakland
Bailey, P. C.	Attala	Kosciusko
Baker, E. G.	Greene	Jeanette
Bennett, Claude	Lincoln	Brookhaven
Bibb, B. L.	Montgomery	Winona
Billingsley, D. V.	Montgomery	Winona
Bookout, C. T.	Itawamba	Fulton
Bookout, L. A.	Itawamba	Fulton
Bridges, T.	Hinds	Raymond
Brewster, J. B.	Louisiana	Covington, La.
Brumfield, C. N.	Coahoma	Clarksdale
Buchanan, J. L.	Rankin	Brandon
Cain, W. H.	Franklin	Little Springs
Campbell, J. S.	Adams	Natchez
Carr, D. F.	Warren	Vicksburg
Coleman, V. P.	Yalobusha	Water Valley
Campbell, J. S.	Jefferson	Harriston
Cox, D. C.	Simpson	Braxton
Critz, Wiley	Oktibbeha	Starkville
Criss, W. H.	Grenada	Graysport
Dilworthe, L. E.	Alcorn	Rienzi
Dean, J. H.	Monroe	Amory
Dille, A. B.	Oktibbeha	Starkville
Devine, K.	Madison	Canton
Drake, J. D.	Montgomery	Winona
Dunaway, S. B.	Webster	Mathiston
Fore, J. M.	Lincoln	Brookhaven
Frizzell, J. L.	Montgomery	Winona
Galtin, H. W.	Amite	Smithdale
Hannah, R. L.	Oktibbeha	Sturgis
Harris, L. C.	Monroe	Splunge
Hart, J. H.	Lincoln	Bogue Chitto
Hartness, C. K.	Oktibbeha	Starkville
Hathorn, Guy	Hinds	Jackson
Herbert, W. B.	Holmes	Lexington
Honnell, R. W.	Alcorn	Rienzi
Holland, J. B.	Monroe	Amory
Huron, J. H.	Monroe	Amory
Kennedy, O. L.	Lee	Guntown
Labouisse, J. P.	Louisiana	New Orleans
Leo, N.	Franklin	Eddiceton
Leo, J. J.	Pike	Magnolia
Long, J. B.	Oktibbeha	Sturgis
Lundy, Vernon	Holmes	Lexington

NAME.	COUNTY.	POSTOFFICE.
Lundy, W. B. ....	Holmes .....	Lexington
McHalloy, W. C. ....	Alcorn .....	Rienzi
Martin, W. C. ....	Jefferson .....	Lorman
McCalebb, Dr. J. F. ....	Claiborne .....	Insmore
May, Miss Bessie .....	Lincoln .....	Brookhaven
May, T. A. ....	Lincoln .....	Brookhaven
May, J. M. ....	Lincoln .....	Brookhaven
Markham, L. A. ....	Washington .....	Greenville
Mann, W. B. ....	Madison .....	Mansdale
Miller, W. S. ....	Lawrence .....	Silver Creek
Montgomery, A. H. ....	Oktibbeha .....	Starkville
Moak, D. S. ....	Lincoln .....	Bogue Chitto
Moorehead, H. S. ....	Claiborne .....	Ingleside
Moore, R. F. ....	Madison .....	Camden
Moore, W. A. ....	Montgomery .....	Winona
Mullins, J. H. ....	Franklin .....	Eddiceton
Norman, Miss Synne .....	Lincoln .....	Brookhaven
Patton, Jas. ....	Bolivar .....	Shaw
Petuson, J. L. S. ....	Noxubee .....	Brooksville
Paderas, Theo. ....	Louisiana .....	Covington
Porter, B. B. ....	Oktibbeha .....	Starkville
Price, W. T. ....	Simpson .....	Braxton
Raney, D. E. ....	Oktikbeha .....	Sturgis
Robertson, H. H. ....	Clay .....	Cedar Bluff
Roberts, J. H. ....	Attala .....	Center
Rogan, S. C. Jr. ....	Warren .....	Vicksburg
Robertson, J. H. ....	.....	Griffith
Richardson, A. H. ....	Monroe .....	Amory
Savely, H. E. ....	District of Columbia .....	Washington
Schmidt, John .....	Chickasaw .....	Egypt
Smith, W. R. ....	Monroe .....	Aberdeen
Steen, W. A. ....	Simpson .....	Pearl
Stansell, J. E. ....	Tippah .....	Blue Mountain
Stiles, F. F. ....	Oktibbeha .....	Starkville
Stephens, B. Z. ....	Montgomery .....	Winona
Stiles, R. C. ....	Montgomery .....	Winona
Suddoth, W. H. ....	Montgomery .....	Winona
Sutton, E. L. ....	Lawrence .....	Nola
Sykes, H. V. ....	Oktibbeha .....	Starkville
Tate, H. D. ....	Montgomery .....	Winona
Thornhille, T. W. ....	Pike .....	Holmesville, R. F. D. 2
Walthall, E. W. ....	Hinds .....	Jackson
Walker, E. H. ....	Clay .....	Abbott
Walthall, Roscoe .....	Clay .....	Abbott
Walls, J. H. ....	Warren .....	Vicksburg
Watson, C. W. ....	Madison .....	Canton
Webb, L. ....	Clay .....	Pheba
White, Nola .....	Lawrence .....	Nola
White, T. E. ....	Lawrence .....	Nola
Williamson, E. G. ....	Louisiana .....	Lake Providence
Woodard, T. W. ....	Oktibbeha .....	Starkville
Woodruff, A. S. ....	Panola .....	Batesville
Young, W. E. ....	Amite .....	Smithdale

# NAMES OF STUDENTS WHO ATTENDED THE SUMMER SCHOOL AT MISSISSIPPI A. & M. COLLEGE.

Session 1909.

NO.	NAME.	ADDRESS.	COUNTY.
357.	Adams, Miss Carrie .....	Macon .....	Noxubee
275.	Alexander, W. M. ....	Lexington .....	Holmes
225.	Allen, Miss Florence .....	Carthage .....	Leake
211.	Alston, Miss Lillian G. ....	Starkville .....	Oktibbeha
239.	Anderson, Miss Bertha .....	Coldwater .....	Tate
164.	Anthony, H. C. ....	Starkville .....	Oktibbeha
241.	Archer, Miss K. S. ....	Baldwyn .....	Lee
162.	Arnold, Miss Callie .....	Starkville .....	Oktibbeha
253.	Atkinson, Miss Bertha .....	Louisville .....	Winston
	Atteberry, Miss Edna .....	McCool .....	Attala
179.	Austin, Miss Estelle .....	Oak Ridge .....	Warren
60.	Baker, Miss Mamie .....	Brandon .....	Rankin
199.	Ball, Monroe .....	Braxton .....	Simpson
306.	Batton, Thos. S. ....	University .....	Lafayette
113.	Beanland, Miss Clara .....	Batesville .....	Panola
61.	Belford, Miss Sue Ella .....	Acona .....	Holmes
231.	Bennett, G. P. ....	Madison Station .....	Madison
120.	Bennett, Winnie .....	Crystal Springs .....	Copiah
161.	Beville, Miss Sallie Lee .....	Sturgis .....	Oktibbeha
295.	Berry, C. R. ....	Baldwyn .....	Lee
22.	Berry, Miss Fena .....	Corinth .....	Alcorn
175.	Biggs, Miss Bettie .....	Crystal Springs .....	Copiah
235.	Birkhead, Miss Jessie .....	Vaughn .....	Yazoo
69.	Black, Miss Hattie .....	Weir .....	Choctaw
68.	Black, Miss Mildred .....	Weir .....	Choctaw
200.	Black, Miss Myrrha .....	McCool .....	Attala
255.	Black, Miss Nelia .....	McCool .....	Attala
72.	Black, Miss Shadie .....	McCool .....	Attala
262.	Blizzard, E. ....	Myrtle .....	Union
301.	Boggan, T. K. ....	Biloxi .....	Harrison
263.	Bond, W. F. ....	Wiggins .....	Harrison
259.	Bookout, C. T. ....	Indianola .....	Sunflower
326.	Bostick, Miss Jewell .....	Sandersville .....	Jones
194.	Boswell, Miss Mabel .....	Ruleville .....	Sunflower
66.	Boyd, Miss Elise .....	McVile .....	Attala
16.	Bradley, Miss Evan .....	Corinth .....	Alcorn
62.	Brewer, C. A. ....	McComb .....	Pike
115.	Brice, Miss Mazie .....	Brookhaven .....	Lincoln
14.	Brice, Miss Annie Myrtle .....	Corinth .....	Alcorn
17.	Brown, Miss Gertrude .....	Binnsville .....	Kemper
78.	Bullard, Miss Minnie .....	Troy .....	Pontotoc
308.	Bush, Miss Mary .....	Macon .....	Noxubee
222.	Burton, Mrs. Linnie L. ....	Daleville .....	Lauderdale
184.	Byrd, F. L. ....	Starkville .....	Oktibbeha
202.	Calloway, Miss Verna .....	Pontotoc .....	Pontotoc
84.	Campbell, Miss Laura .....	Dockery .....	Sunflower
168.	Carroll, Miss Evan May .....	Starkville .....	Oktibbeha

NO.	NAME.	ADDRESS.	COUNTY.
149.	Chappell, Miss Louie	Fern Springs	Winston
148.	Chappell, Miss Nola	Fern Springs	Winston
94.	Chapman, Miss Julia	Newton	Newton
95.	Chapman, Miss Lou	Newton	Newton
213.	Clarke, Miss Mary	Sibleyton	Montgomery
85.	Cliett, J. D.	Pheba	Clay
185.	Cline, Miss Nannie	Macon	Noxubee
42.	Cockerell, Miss Juanita	Montpelier	Clay
48.	Cohen, Miss Harriet	Summit	Pike
157.	Coleman, Miss Lallie	Montpelier	Clay
309.	Collins, J. M.	Stonewall	Clarke
125.	Connell, Miss Dollie	Mayhew	Lowndes
216.	Cooke, F. D.	Walshall	Webster
100.	Cooper, Miss Ethel	Durant	Holmes
219.	Coombs, G. W.	Ripley	Tippah
144.	Culpepper, Miss Nell	Toomsaba	Lauderdale
35.	Corley, Miss Allie B.	Meridian	Lauderdale
154.	Cothaw, Miss Johnnie	Pittsboro	Calhoun
278.	Cotton, Miss Hassie	Sturgis, R. F. D. No. 1	Oktibbeha
146.	Courts, Miss Carrie	Pickens	Holmes
145.	Courts, Miss Sudie	Pickens	Holmes
182.	Cresswell, O. M.	Oxford	Lafayette
105.	Crockett, Miss Clyde	Philadelphia	Neshoba
167.	Crumpton, Miss Mertice	Starkville	Oktibbeha
166.	Crumpton, Miss Mollie	Starkville	Oktibbeha
25.	Cummins, Miss Ada	Maben	Oktibbeha
26.	Cummins, Miss Rosebud	Maben	Oktibbeha
282.	Cunningham, V. H.	Louisville	Winston
117.	Dunlap, Miss Pearl	Batesville	Panola
59.	Dodson, Miss Willie May	Goodman	Holmes
279.	Dabney, Miss Anne Bob	Hernando	De Soto
80.	Davis, Miss Cora Lee	Cedar Bluff	Oktibbeha
289.	Davis, Miss Mamie	Meridian	Lauderdale
274.	Davis, Miss Mary	Kosciusko	Attala
214.	Davis, Miss Texie	Parchman	Sunflower
3.	Day, Ozro	Decatur	Newton
209.	Denley, Miss Johnnie	Calhoun City	Calhoun
208.	Denley, Miss Susie	Calhoun City	Calhoun
134.	Denman, Barton	Macon	Noxubee
261.	Dickerson, L. E.	Blue Springs	Union
83.	Dimond, Miss Myrtle	Winona	Montgomery
83.	Dimond, Miss Pearle	Winona	Montgomery
234.	Dixon, Miss Ermie	Vaughn	Yazoo
44.	Eaddy, Miss Mattie	Crystal Springs	Copiah
43.	Echols, Miss Bessie	Mantee	Webster
229.	Edwards, Miss Georgia	Kosciusko	Attala
187.	Egger, B. B.	Hamilton	Monroe
215.	Ellis, R. P.	Starkville	Oktibbeha
130.	Farish, Miss Lucy	Yazoo City	Yazoo
249.	Feamster, Miss Lucile	Nettleton	Lee
110.	Flemming, Miss Minnie C.	Camden	Madison
204.	Fuller, Miss Gussie	Sturgis	Oktibbeha
2.	Gallasky, J. R.	Decatur	Newton



NO.	NAME.	ADDRESS.	COUNTY.
92.	Gary, Miss Ida	Eupora	Webster
114.	Gallaspy, Miss Aldine	Crystal Prings	Copiah
298.	Gooch, W. G.	Iuka	Tishomingo
269.	Grace, Miss Viola	Aberdeen	Monroe
19.	Grace, Miss Lula	Meridian	Lauderdale
121.	Greene, Miss Nannie E.	Stonewall	Clarke
264.	Graham, S. M.	DeKalb	Kemper
292.	Grantham, O. F.	Collins	Covington
257.	Guyton, G.	Kosciusko	Attala
280.	Halbert, Miss Ethel	Starkville	Oktibbeha
21.	Hall, Miss Mary Carnes	Holly Springs	Marshall
23.	Halstead, Miss Bee	Martin, Tenn.	Tennessee
203.	Hamm, Mrs. J. S.	Meridian	Lauderdale
135.	Hammond, Miss Emmie	Maben	Oktibbeha
136.	Hammond, Miss Julye	Kilmichael	Montgomery
	Hasney, Miss Fannie S.	Aberdeen	Monroe
72.	Hannah, Miss Edna	Sturgis	Oktibbeha
70.	Hannah, Miss Jewell	Daleville	Lauderdale
223.	Harbour, Miss Maude	Daleville	Lauderdale
156.	Hardy, Miss Kate	Roberts	Newton
180.	Hardy, Miss Mattie C.	Blue Mountain	Tippah
265.	Harper, Miss Sadie	Brooksville	Noxubee
165.	Harrington, A. B.	Starkville	Oktibbeha
41.	Harrison, Miss Neva	Neshoba	Neshoba
64.	Harrell, Miss Ina	Maben	Oktibbeha
63.	Harrell, Miss Letha	Maben	Oktibbeha
183.	Hartness, Miss Nannye Mae	Starkville	Oktibbeha
272.	Harvey, Miss Maude	Mathiston	Webster
207.	Harvey, Miss Willie H.	Winona	Montgomery
50.	Hearon, Miss Estelle	French Camp	Attala
197.	Henry, Miss Effie	Starkville	Oktibbeha
79.	Henry, Marian	Strakville	Oktibbeha
124.	Henton, Miss Ethel	Hickory	Newton
137.	Herring, Miss Nora	Lexington	Holmes
138.	Herring, Miss Bessie	Lexington	Holmes
291.	Higdon, B. H.	Hazlehurst	Copiah
20.	Floyd, T. Hinson	Kilmichael	Montgomery
64.	Hollingsworth, Miss Nannie	McVile	Attala
247.	Howell, Miss Lillie	Durant	Holmes
226.	Huddleston, W. S.	Bay Springs	Jasper
109.	Hudson, Miss Anna	Central Academy	Panola
258.	Huggins, J. J.	Okolona	Chickasaw
118.	Hunt, Miss Clara B.	Utica	Hinds
171.	Jackson, Miss Alma	Meridian	Lauderdale
256.	Jacob Peyton	Amory	Monroe
11.	Journey, Miss Ludyne	Longview	Oktibbeha
242.	Johnston, A. B.	Batesville	Panola
139.	Johnston, J. E.	Batesville	Panola
287.	Jones, J. C.	Centerville	Wilkinson
163.	Jones, Miss Loula	Starkville	Oktibbeha
267.	Jones, Mrs. M. D.	Goodman	Attala
281.	Kelley, J. M.	Saltillo	Lee
294.	Kenna, J. M.	Hattiesburg	Berry



NO.	NAME.	ADDRESS.	COUNTY.
276.	Kennedy, J. M.	Shubuta	Clarke
52.	Kinbriel, Miss Edna	Clarkson	Webster
51.	Kinbriel, Miss Mallie	Clarkson	Webster
290.	Roger, Miss Nannie	Brooksville	Noxubee
152.	Lamar A. V.	Pittsboro	Calhoun
6.	Lamar, Miss Fannie Lou	Timberville	Calhoun
8.	Lamberth, Miss Eunice	Corinth	Alcorn
93.	Lawrence, O. M.	Caledonia	Lowndes
173.	Lee, Miss Mary	Fern Springs	Winston
27.	Lee, Miss Mamie	Maben	Oktibbeha
111.	Leighton, Chas. K.	Utica	Hinds
277.	Linfield, R. P.	Pascagoula	Jackson
58.	Livingston, Miss Nellie	Sturgis	Oktibbeha
57.	Livingston, Miss Rosalie	Sturgis	Oktibbeha
103.	Lofton, Miss Beatrice	Waldo	Neshoba
104.	Lofton, Miss Ida	Waldo	Neshoba
102.	Lofton, Miss Emma	Waldo	Neshoba
55.	Logan, Miss Oma	Hohenlinden	Webster
254.	Looney, J. O.	Tishomingo	Tishomingo
206.	Love, Miss Newton J.	Cupid	Tate
297.	Love, E. M.	Lorena	Smith
99.	Luke, Mrs. Evelyn	Philadelphia	Neshoba
303.	Lyon, Mrs. E. T.	Tchula	Holmes
83.	McBee, Miss Echia	Halstead	Sunflower
33.	McCalebb, Miss Velma	Walthall	Webster
98.	McClendon, A. S.	Philadelphia	Neshoba
212.	McCreight, Miss Lucile	Starkville	Oktibbeha
9.	McElhannon, Miss Lessie	Corinth	Alcorn
108.	McGovern, Miss Katie	Ackerman	Choctaw
159.	McGrann, Miss Louise	Memphis, Tenn.	Shelby
128.	McGraw, Miss Zodie	Yazoo City	Yazoo
88.	McLeod, Miss Norma	French Camp	Choctaw
67.	McMillan, Miss Leila	McVile	Attala
221.	McWilliams, Miss M.	Daleville	Lauderdale
289.	Mabry, W. C.	Decatur	Newton
238.	Malone, B. H.	Bellefontaine	Webster
107.	Mansell, Mrs. Chas.	Camden	Madison
106.	Mansell, Miss Lorena	Camden	Madison
81.	Martin, Miss Annie Mae	Macon	Noxubee
132.	Mason, E. P.	Meridian	Lauderdale
228.	Mason, Miss Sadie	Meridian	Lauderdale
12.	Madison, Mrs. T. D.	Holly Springs	Marshall
38.	Mazyck, Miss Kathrine	Yazoo City	Yazoo
246.	May, Miss Grace	D'Lo	Simpson
29.	Merrill, Miss Blanche	Meridian	Lauderdale
30.	Merrill, Miss Maude	Meridian	Lauderdale
31.	Miller, Miss Eula	Why Not	Lauderdale
170.	Miller, Miss Marguerite	Starkville	Oktibbeha
193.	Miller, Miss Rebecca	Yazoo City	Yazoo
176.	Mitchell, Miss Ethel	Batesville	Panola
49.	Morgan, Miss Anzo	Baldwyn	Prentiss
217.	Montgomery, Miss Madge	Starkville	Oktibbeha
190.	Moody, Miss Aura	West Point	Clay

NO.	NAME.	ADDRESS.	COUNTY.
205.	Moore, Miss Lou	McBride	Jefferson
188.	Moore, Miss Rosalie	Durant	Holmes
305.	Moore, W. P.	Poplarville	Sharkey
218.	Mims, R. C.	Hattiesburg	Perry
36.	Moss, Miss Jennie	Laurel, R. F. D. No. 3.	Jones
198.	Murphee, Amelia F.	Starkville	Oktibbeha
142.	Nance, Miss Annie	Maben	Oktibbeha
294.	Newell, A. L.	Pittsboro	Calhoun
248.	Newman, Miss Florence	Bowling Green	Holmes
116.	Oliver, Miss Josie	Brookhaven	Lincoln
122.	Overton, Miss Essie	Meridian	Lauderdale
151.	Pagon, Miss Mattie Earle	Macon	Noxubee
24.	Patterson, Miss Alberta	Meridian	Lauderdale
220.	Pearson, Miss Hattie	Starkville	Oktibbeha
127.	Piester, Miss Burdette	Thornton	Holmes
160.	Perkins, Mrs. A. E.	Starkville	Oktibbeha
10.	Perry, Miss Cornia	Graysport	Grenada
5.	Philpot, Miss Jennie	Timberville	Calhoun
186.	Plyler, Miss Maude	Hesterville	Attala
145.	Pigford, Miss	Toomsaba	Lauderdale
286.	Powell, L. R.	Wesson	Copiah
243.	Price, J. S.	Houlka	Chickasaw
65.	Rayner, Miss Katie	Durant	Holmes
178.	Richardson, Miss Maggie	Sturgis	Oktibbeha
126.	Robbins, Miss Mary	New Albany	Union
74.	Rogers, Miss Groner	Chester	Choctaw
232.	Rogers, Miss Maude N.	Lauderdale	Lauderdale
73.	Rogers, Miss Maude	Chester	Choctaw
133.	Rose, C. M.	Yazoo City	Yazoo
86.	Ross, J. M.	Toomsaba	Lauderdale
244.	Rundle, John	Pelahatchie	Rankin
196.	Russell, Miss Beatrice	Nala	Lawrence
260.	Rush, F. V.	Brandywyne	Claiborne
195.	Russell, B. M.	New Hebron	Lawrence
152.	Russell, O.	Decatur	Newton
39.	Sample, Sam	Ebenezer	Holmes
112.	Sarett, Miss Mabel	Utica	Hinds
77.	Scarbrough, D. A.	Bond	Harrison
76.	Scarbrough, Miss Mittie	Bond	Harrison
15.	Scott, Miss Carter	Corinth	Alcorn
56.	Scott, Miss Nora	Hohenlinden	Webster
147.	Scroggin, Miss Lydia	Maben	Oktibbeha
156.	Staggers, Miss Essie Lee	Macon	Noxubee
191.	Seale, Miss Z.	West Point	Clay
37.	Seitzler, B. W.	Bowling Green	Holmes
97.	Simmons, Miss Emie	Newton	Newton
252.	Sanderson, David	Vaiden	Carroll
169.	Smith, Miss Casey	Union	Montgomery
129.	Smith, Miss Lillian	Crystal Springs	Copiah
177.	Snelling, Miss Rosa	Batesville	Panola
268.	Smith, Tannyo	Hamilton	Monroe
143.	Spinks, Miss Viva	Toomsaba	Lauderdale
192.	Sutherland, R. E. L.	Booneville	Prentiss

NO.	NAME.	ADDRESS.	COUNTY.
220.	Stanford, W. P.	Lexington	Holmes
46.	Stiles, Miss Annie	Brooksville	Noxubee
119.	Stuart, Miss Ollie	Crystal Springs	Copiah
181.	Stone, L. J.	Meridian	Lauderdale
239.	Stovall, H. A.	Beach	Scott
233.	Streetman, D. H.	Smithville	Monroe
285.	Stringer, S. L.	Louin	Jasper
32.	Tanner, E. A.	Indianola	Sunflower
141.	Taylor, Miss Viola	Longview	Oktibbeha
155.	Terry, Miss Mabel	Gulfport	Harrison
131.	Thomas, S. M.	Macon	Noxubee
101.	Thomas, Miss Nina	Philadelphia, R.F.D.No.6,	Neshoba
28.	Thrash, Miss Beulah	Meridian	Lauderdale
304.	Tindall, Ben	Eupora	Webster
40.	Trapp, Miss Gertie	Philadelphia	Neshoba
245.	Trussell, Miss Carrie	D'Lo	Simpson
270.	Truesdel, Miss Gussie	Camden	Madison
271.	Truesdel, Miss Stella	Camden	Madison
251.	Vandiver, J. S.	Ackerman	Choctaw
250.	Vandiver, Mrs. J. S.	Ackerman	Choctaw
5.	Vernon, Miss Effie	Sibleyton	Montgomery
4.	Vernon, Miss Allye	Sibleyton	Montgomery
13.	Voyles, Miss Cordia	Corinth	Alcorn
87.	Walker, E. H.	Abbott	Clay
227.	Walker, Miss Lillie	Bailey	Lauderdale
300.	Wallace, J. D.	Summit	Pike
45.	Wallace, Miss Jodie	Loaktoma	Winston
18.	Walton, Miss Zelle	Newton	Newton
140.	Ware, Miss Mary Belle	Starkville	Oktibbeha
75.	Warner, W. L.	Acona	Holmes
185.	Watkins, Miss Alma	Philadelphia	Neshoba
236.	Watkins, Miss Katie	West Point	Clay
284.	Weathersby, Will H.	Clinton	Hinds
96.	Welch, Miss Virginia	Meridian, 1209, 5th St.,	Lauderdale
185.	White, Amye	Louisville	Winston
1.	Whitworth, J. S.	Virilia	Madison
174.	Williams, Miss Alpha	Meridian	Lauderdale
7.	Williams, Miss Delle	Starkville	Oktibbeha
172.	Williams, Miss Leila	Meridian	Lauderdale
273.	Williams, Miss Mary	Florence	Rankin
237.	Willingham, Miss Mary E.	Eupora	Webster
53.	Williams, Jno. E.	Zebulon	Attala
288.	Williams, W. C.	Newton	Newton
226.	Wilder, Miss Bessie	Cuba, Ala.	Alabama
299.	Windham, J. C.	Canton	Madison
230.	Winters, Annie	Kosciusko	Attala
296.	Woodward, J. H.	Aberdeen	Monroe
282.	Woodward, S. L.	Mt. Olive	Covington
240.	Woodfin, Miss R.	Okolona	Chickasaw
34.	Wofford, Miss Hattie L.	Hohenlinden	Webster
89.	Womack, Miss Cassie	Mantee	Webster
90.	Womack, Miss Edna	Mantee	Webster
91.	Womack, Verna	Mantee	Webster

# SUMMARY.

Graduate Students.....	15
Agricultural Seniors .....	21
Engineering Seniors .....	21
Pedagogical Seniors .....	12
Textile Seniors .....	3
Agricultural Juniors .....	28
Engineering Juniors .....	36
Pedagogical Juniors .....	21
Textile Juniors .....	4
Agricultural Sophomores .....	56
Engineering Sophomores .....	50
Pedagogical Sophomores .....	31
Textile Sophomores .....	4
Agricultural Freshmen .....	113
Engineering Freshmen .....	71
Pedagogical Freshmen .....	39
Textile Freshmen .....	5
Unclassified Freshmen .....	21
Preparatory Students .....	207
Special Agricultural Students .....	2
Special Engineering Students .....	11
Special Textile Students .....	20
Working Boys .....	62
Irregular Students .....	65
Unclassified Students .....	25
Summer School Students .....	313
Short Summer Course in Agriculture.....	105
Total .....	1,351

## DEGREES CONFERRED, 1909.

### AGRICULTURAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Anthony, J. B.....	Attala	McFarland, J. C.....	Jones
Baird, G. E.....	Sunflower	Nettles, W. R.....	Wilkinson
Hosey, G. W.....	Jasper	Raney, D. ....	Lauderdale
Luster, M. J.....	Claiborne	Robbins, E. B.....	Lauderdale.
Mitchell, R. S.....	Tippah	Robbins, W. S.....	Lauderdale
McCool, R. M.....	Attala	Johnson, W. G.....	Alabama

### ENGINEERING COURSE.

Bennett, J. G.....	Copiah	Lyons, P. F.....	Warren
Birch, M. T. ....	Monroe	Moncrief, N. C.....	Oktibbeha
Black, Oscar .....	Jackson	Montgomery, W. B.....	Clay
Boggan, G. S.....	Simpson	McCargo, R. W.....	De Soto
Chisolm, F. N.....	Hancock	McClanahan, W. H.....	Lowndes
Cooley, E. E.....	Lauderdale	McCrary, W. F.....	Clay
Craddock, W. P.....	Lowndes	Newton, G. C.....	Georgia
Deale, W. A.....	Noxubee	Ross, F. A.....	Jefferson
Foster, S. L.....	Alabama	Searles, T. M., Jr.....	Warren
Head, T. J.....	Warren	Thomas, J. W.....	Oktibbeha
Hemmingway, W.....	Harrison	Thornhill, J. L.....	Pike
Holmes, W. E.....	Attala	Walker, J. C.....	Rankin
Hudson, W. C.....	Grenada	Whitten, L. H.....	Hinds
Jones, W. C.....	Carroll	Wise, J. S.....	Yazoo
Knight, C. A.....	Kemper	Woodward, J. W.....	Greene
Lass, C. A.....	Oktibbeha		

### PEDAGOGICAL COURSE.

Boydston, R. W.....	Winston	Sargent, J. W.....	Choctaw
Guyton, Grady.....	Attala	Stamper, L. W.....	Montgomery
Kaplan, N. W.....	Sunflower	Stone, L. J.....	Lauderdale
Middleton, T. H.....	Copiah	Strahan, E. R.....	Forrest
Mullins, A. E.....	Lowndes	Thornton, M. K.....	Oktibbeha
Neal, D. C.....	Lauderdale	Waters, B. W.....	Lowndes
Puller, J. S.....	Oktibbeha	Whitworth, J. S.....	Madison
Russell, Oscar .....	Oktibbeha		

### TEXTILE COURSE.

Shelton, J. B.....	Lowndes	Thomas D. ....	Prentiss
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## AWARDS IN 1909.

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### ALUMNI MEDAL.

For the Best Debate in the Junior Class.

W. E. BROUGHNER (Philotechnic).....Hinds County.

### MAGRUDER MEDAL.

For the Best Debate in the Sophomore Class.

H. POSNER (Dialectic).....Clay County.

### REFLECTOR SHORT STORY MEDAL.

H. POSNER (Dialectic).....Clay County.

### DIALECTIC SOCIETY MEDALS.

Prize Declamation (Freshman and Preparatory).

A. E. TERR Y..... Monroe County.

Prize Debate (Sophomore Class).

W. H. BUCKLEY.....Copiah County.

### PHILOTECHNIC SOCIETY MEDALS.

Prize Declamation (Freshman and Preparatory).

G. C. EGERTON.....Lauderdale County.

Prize Debate (Sophomore Class).

J. A. PATRICK.....Rankin County.

### W. D. UPSHAW READY SPEAKER'S MEDAL.

J. B. ANTHONY (Dialectic).....Attala County.

## PROGRAM FOR COMMENCEMENT, 1910.

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### SUNDAY, MAY 29.

- 11:00 A. M.—Sermon by REV. L. E. McNAIR, D. D., Memphis, Tenn.  
8:30 P. M.—Sermon before the Young Men's Christian Association by  
REV. L. E. McNAIR, D. D.
- 

### MONDAY, MAY 30, ALUMNI DAY.

- 11:00 A. M.—Junior Debate for Alumni Medal.  
4:30 P. M.—Drill and Regimental Dress Parade.  
8:30 P. M.—Alumni Annual Address, HON. C. L. GARNETT, Columbus,  
Mississippi.
- 

### TUESDAY, MAY 31, SENIOR DAY.

- 11:00 A. M.—Addresses by Representatives of the Senior Class.  
LEHMAN, E. W.: "Electricity in the Future Development of  
the South."  
LOBDELL, R. N.: "Mississippi an Agricultural State."  
LUTKEN, P. K.: "Better Roads for Mississippi."  
ROSE, W. C.: "The Ideal Teacher."  
SANDERS, H. B.: "The Indifference of the South to Her  
Achievements."  
SIDES, J. E.: "The Awakening of the Southern Farmer."  
WALKER, B. M.: "America's Triple Crown."  
WALTON, F. L.: "Cotton Exchanges."  
8:30 P. M.—Senior Class Exercises.
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### WEDNESDAY, JUNE 1, COMMENCEMENT DAY.

- 11:00 A. M.—Annual Address, by Hon. C. H. ALEXANDER, Jackson, Miss
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Delivery of Medals and Diplomas.

## CALENDAR FOR 1910-1911.

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Session begins.....	September 21, 1910.
Half-term begins.....	November 6, 1910.
Second term begins.....	December 23, 1910.
Half-term begins.....	February 5, 1911.
Third term begins.....	March 19, 1911.
Half-term begins.....	April 23, 1911.
Commencement Sermon.....	June 4, 1911.
Annual Address and Delivery of Diplomas.....	June 7, 1911.

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## HOLIDAYS.

Thanksgiving Day, Christmas, and Field Day.

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